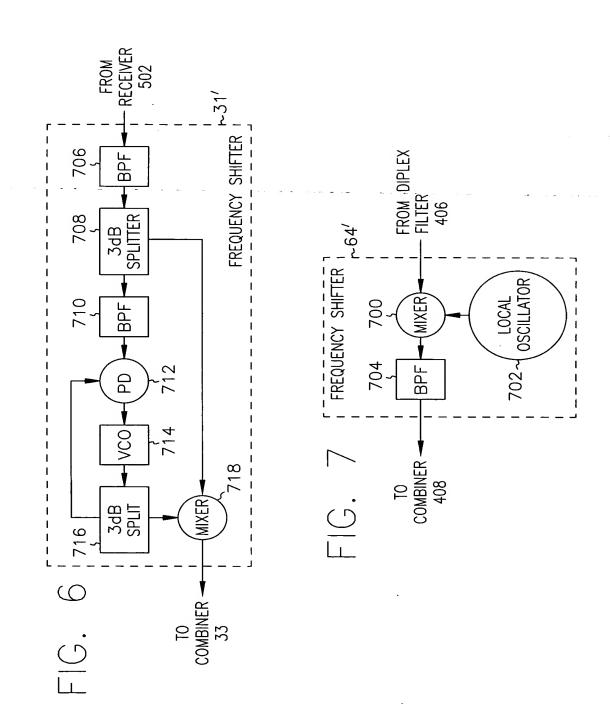
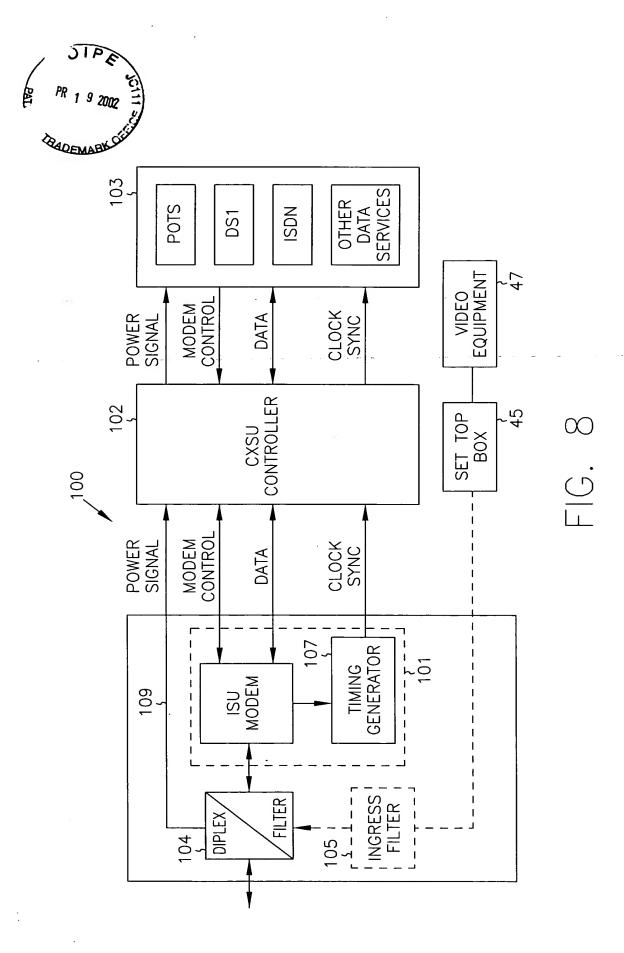


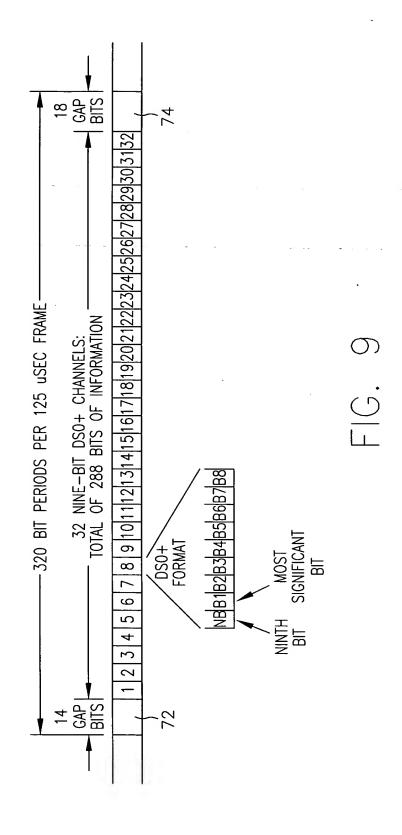
F.G. 5

APR 1 9 2002

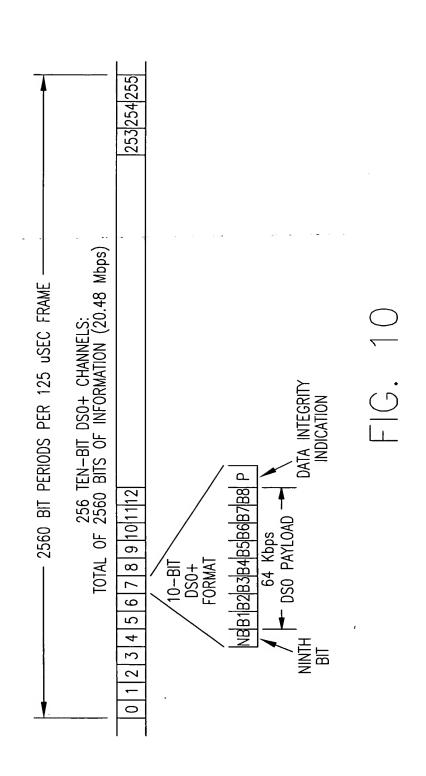




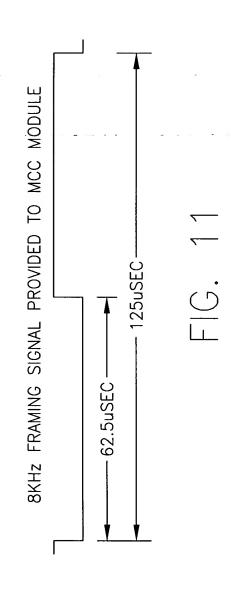




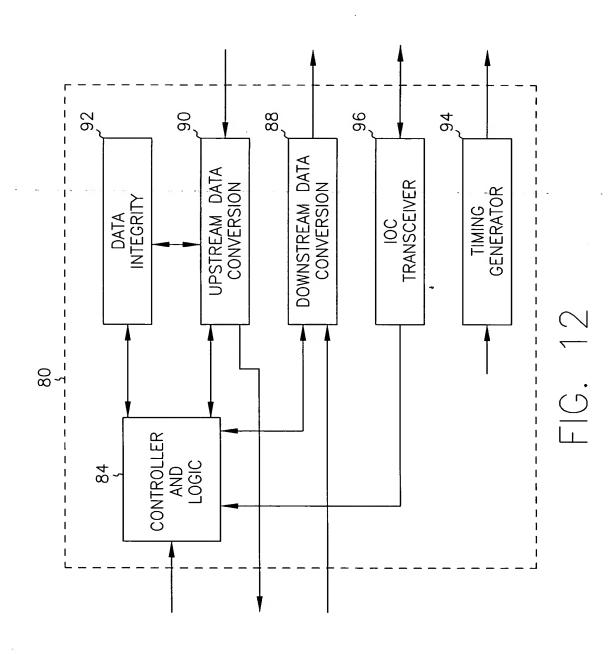














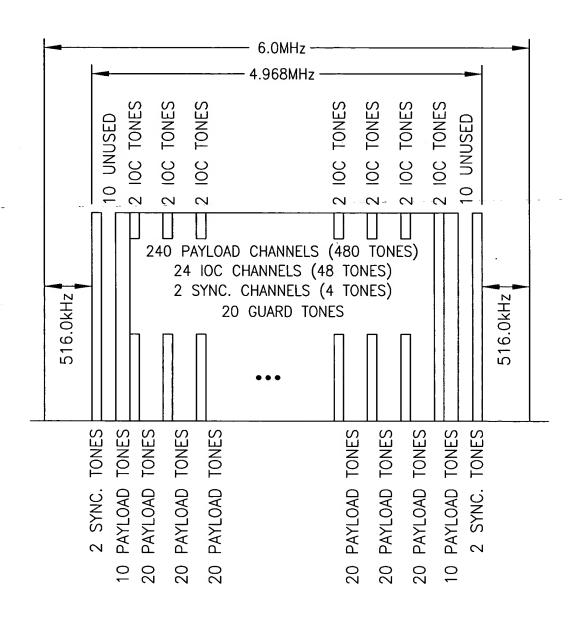


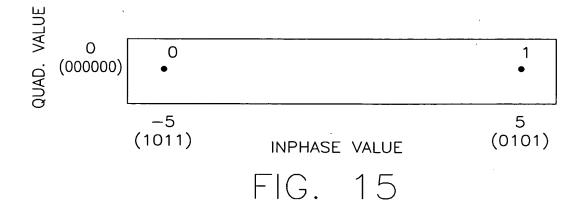
FIG. 13



40EMARK 5		OUSED IN RECEIVE ONLY			VLY TE	Y TRANSMIT POINTS		
QUADRATURE VALUE	5 (0101)	10000	10000	10001	10011	10010	10010	
		16	16	17	19	18	18	
	3 (0011)	10100	11000	11001	11011	11010	11111	
		20	24	25	27	26	31	
	1 (0001)	11100	01000	01001	01011	01010	11110	
		28	8	9	11	10	30	
	1 (1111)	11101	01100	01101	01111	01110	10110	
		29	12	13	15	14	22	
	-3 (1101)	10101	00100	00101	00111	00110	10111	
		21	4	5	7	6	23	
	-5 (1011)	00000	00000	00001	00011	00010	00010	
		0	0	1	3	2	2	

-5 -3 -1 1 3 5 (1011) (1101) (1111) (0001) (0011) (0101) INPHASE VALUE

FIG. 14



APR 1 9 ZORD 11

HIGHEST HISU SUB-BAND SECONDARY MISU RECEIVER AND TRANSMITTER CAPACITY=13 SUB-BANDS HOME ISU RECEIVER AND TRANSMITTER CAPACITY=1 SUB-BANDS \\0\\1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\4\\15\\16\\17\\18\\19\\20\\21\\22\\23\\ HIGHEST MISU SUB-BAND LOWEST MISU SUB-BAND LOWEST HISU SUB-BAND PRIMARY

FIG. 16

5 PAYLOAD CHANNELS + 1 IOC CHANNEL + 5 PAYLOAD CHANNELS (24 SUB-BANDS)

// SYNCHRONIZATION CHANNEL



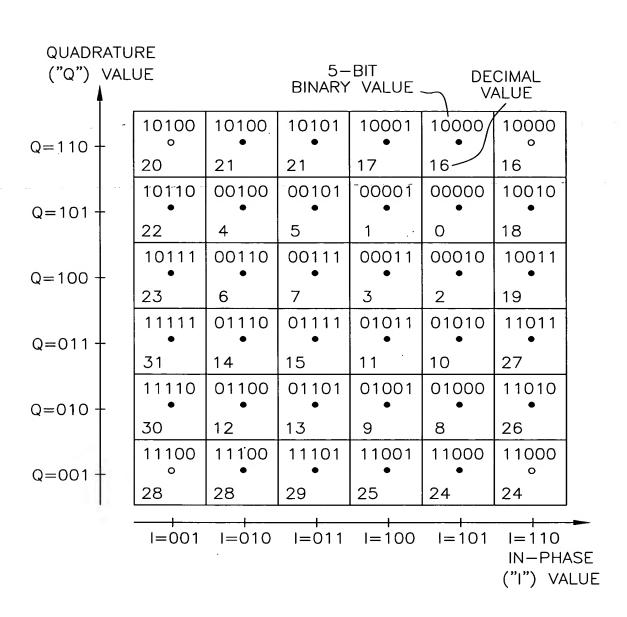


FIG. 17



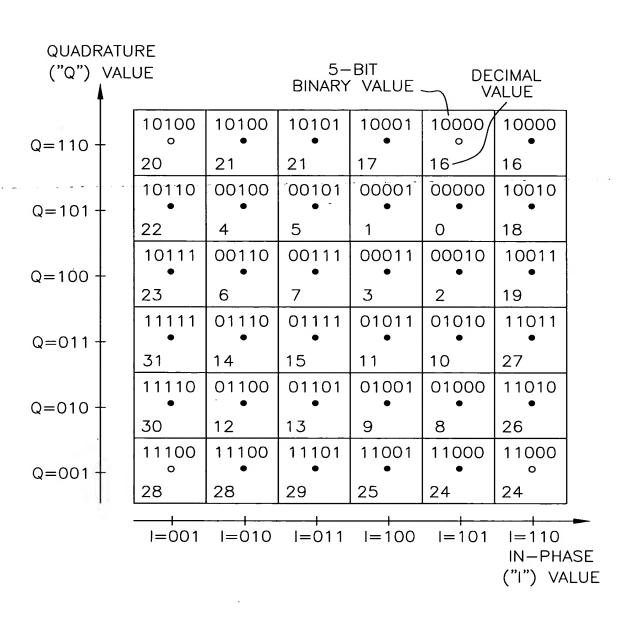
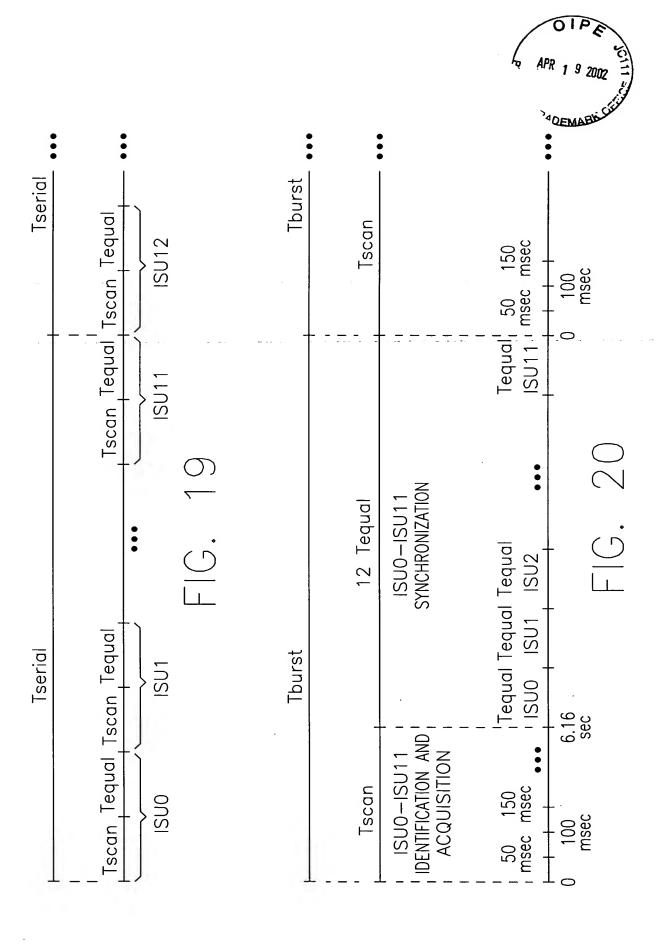
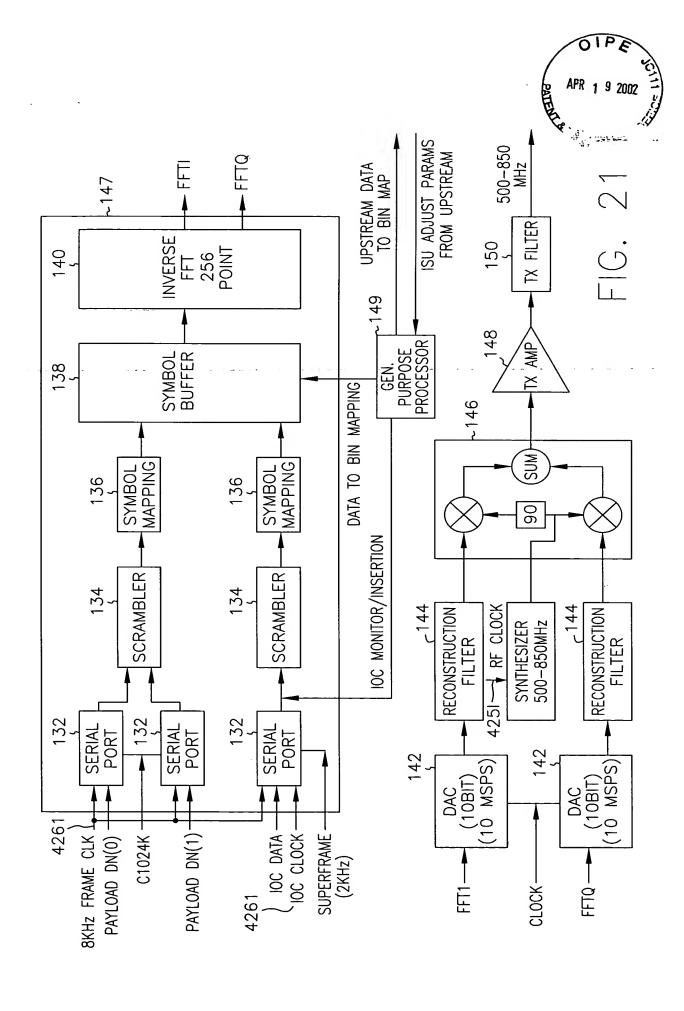
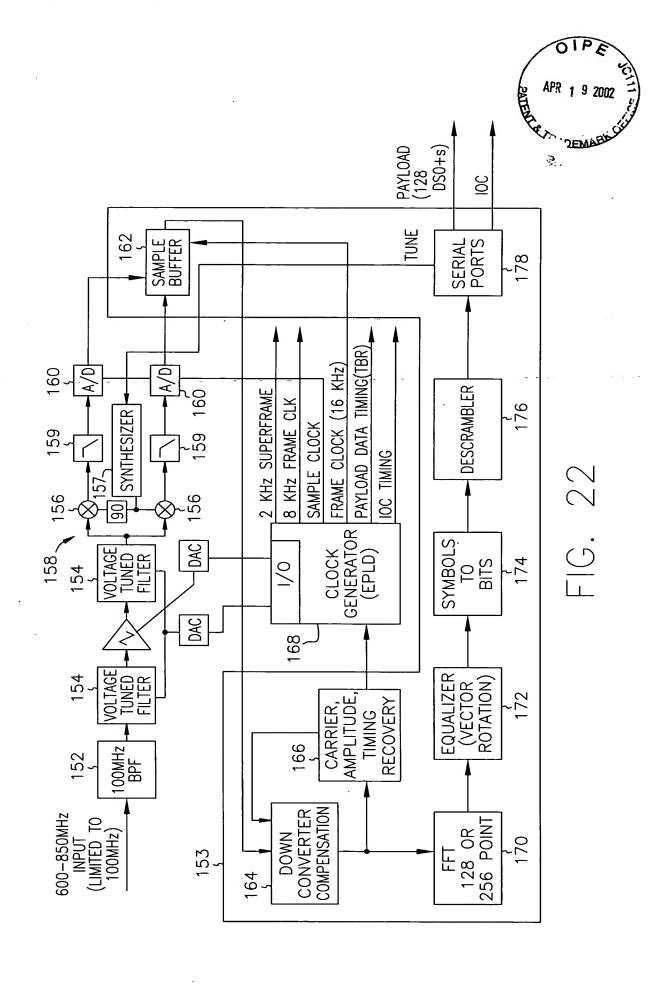
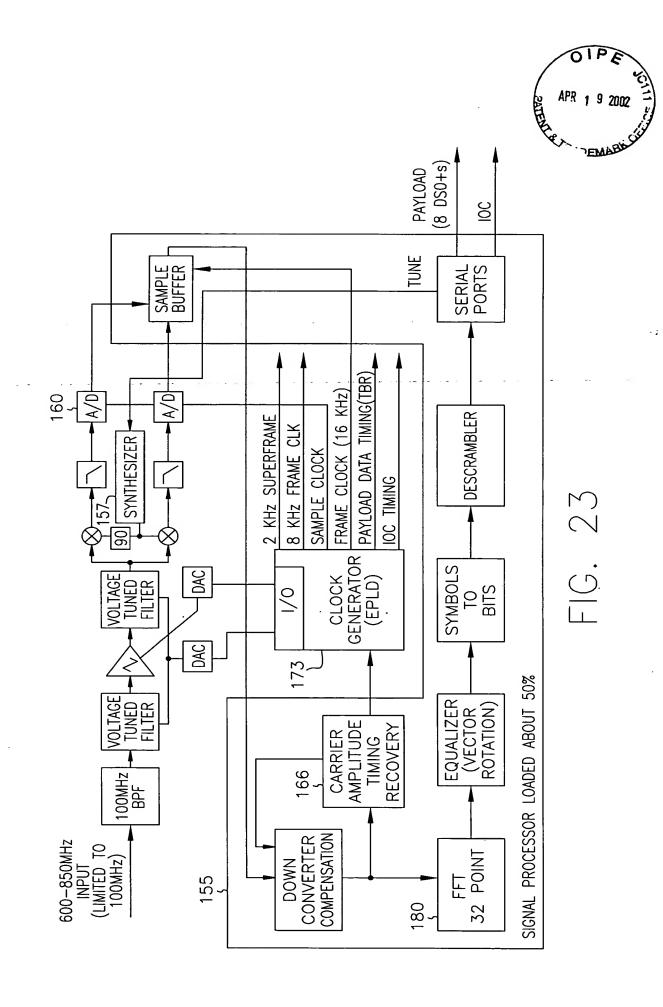


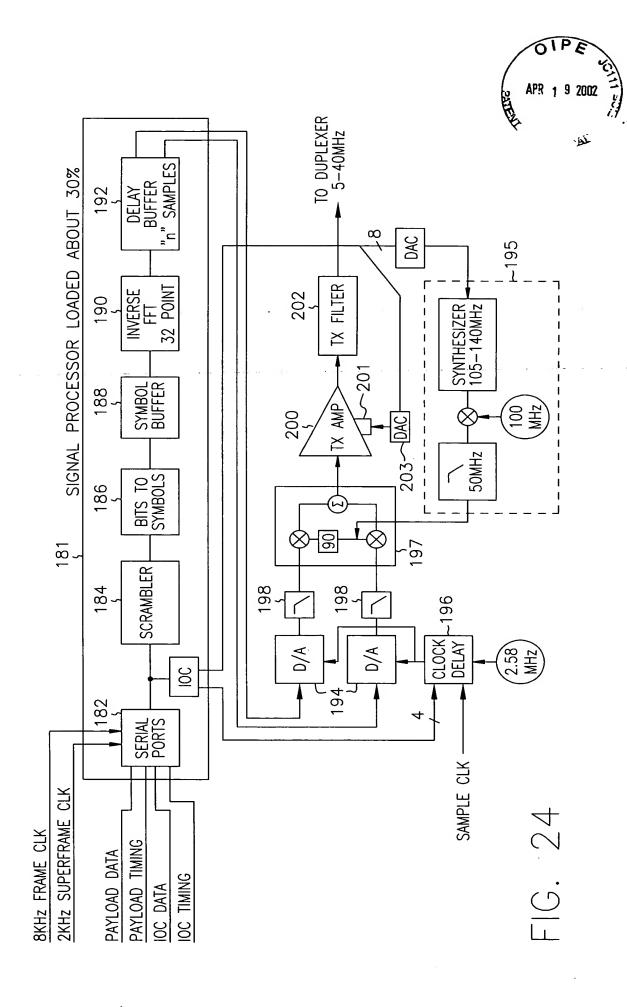
FIG. 18

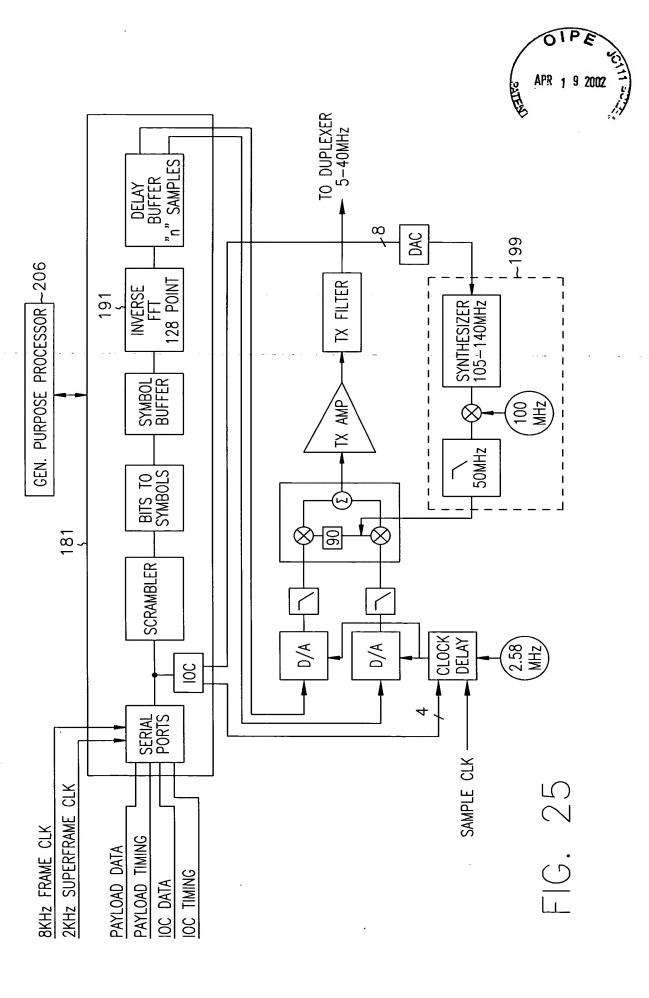


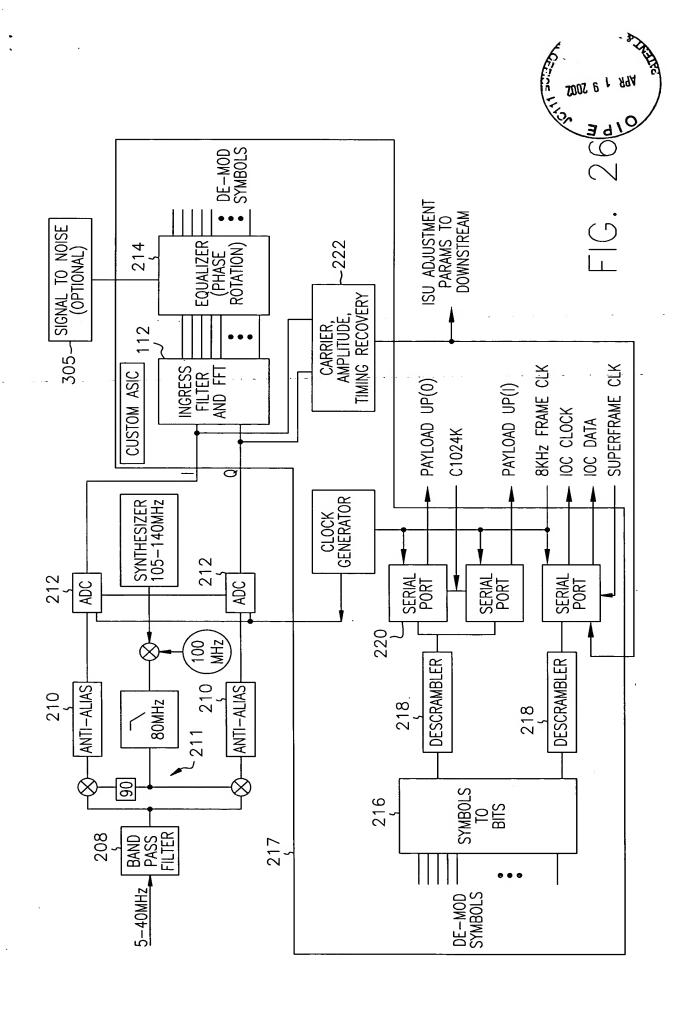














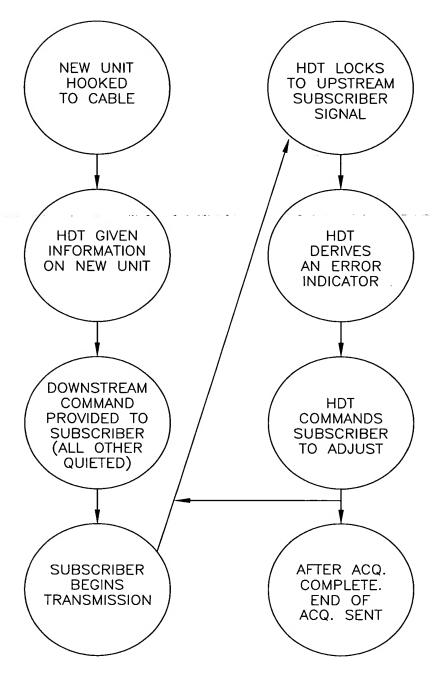


FIG. 27



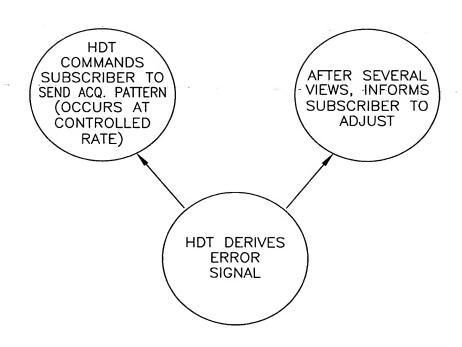
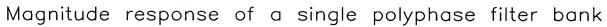


FIG. 28





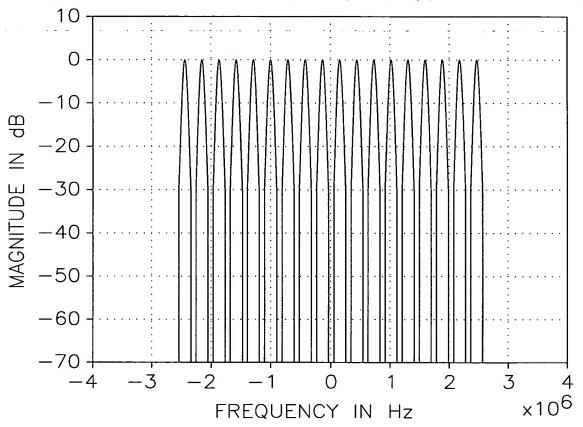
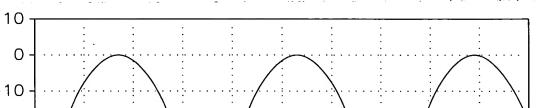


FIG. 29





Magnitude response of a single polyphase filter bank

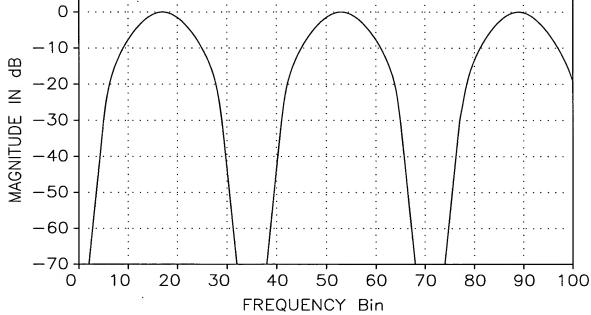
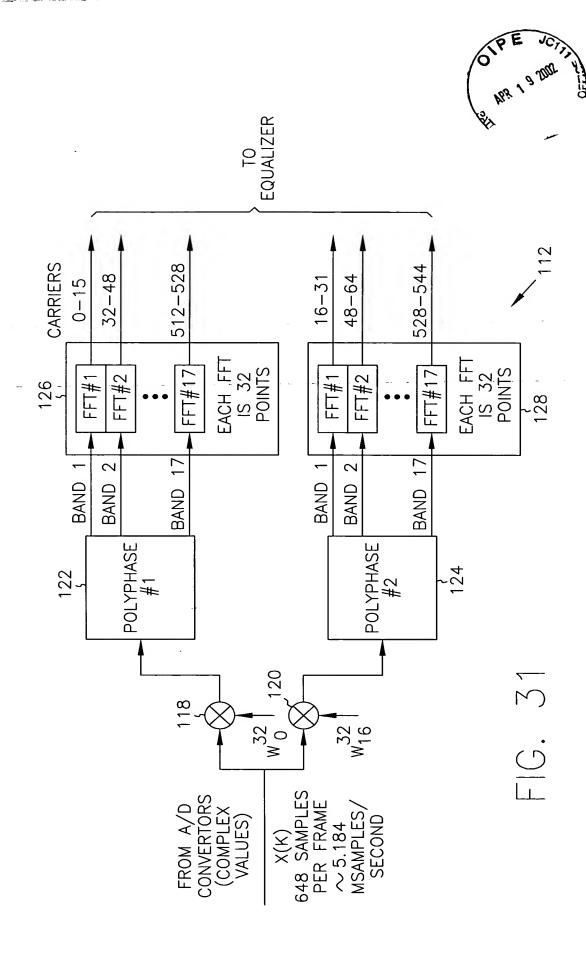
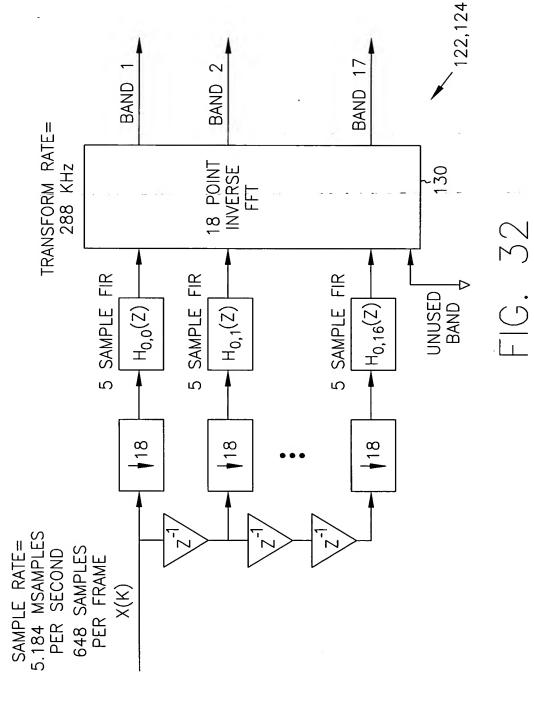
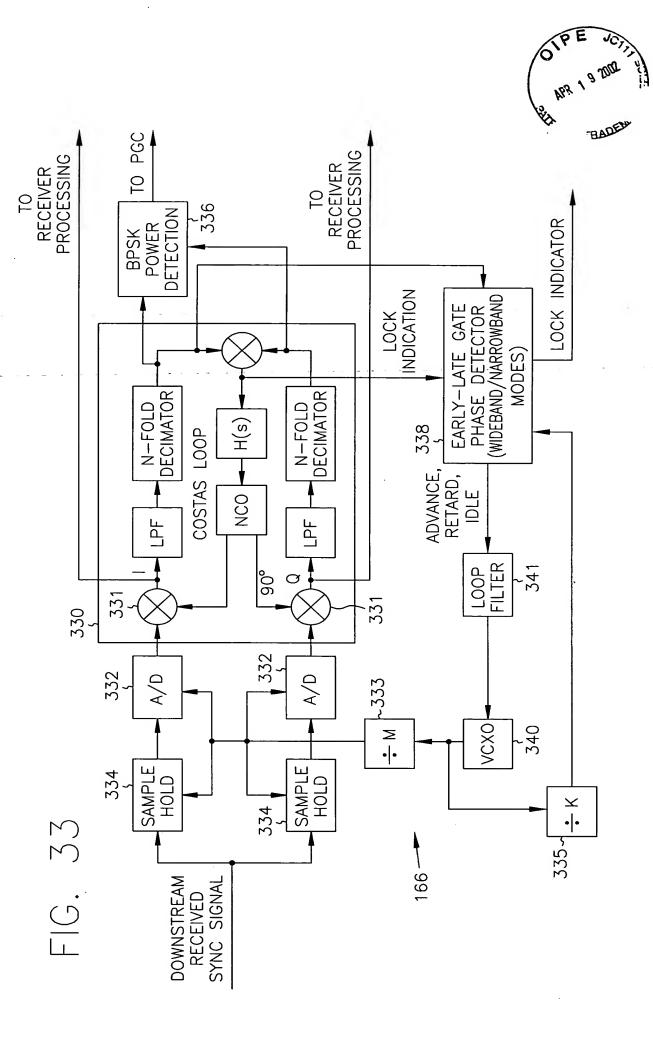


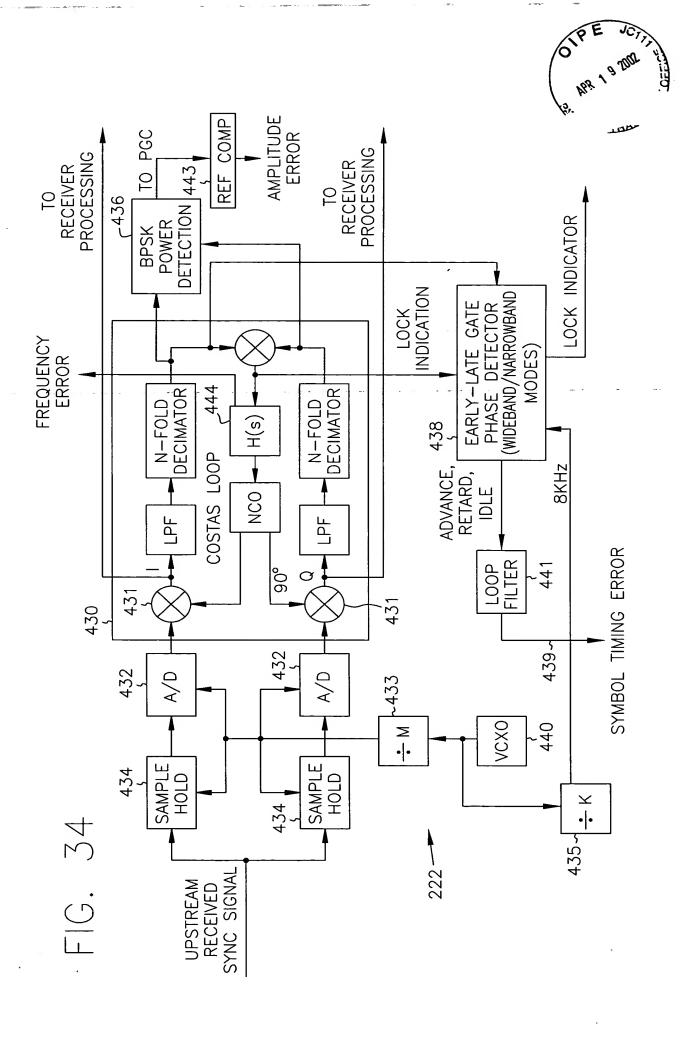
FIG. 30



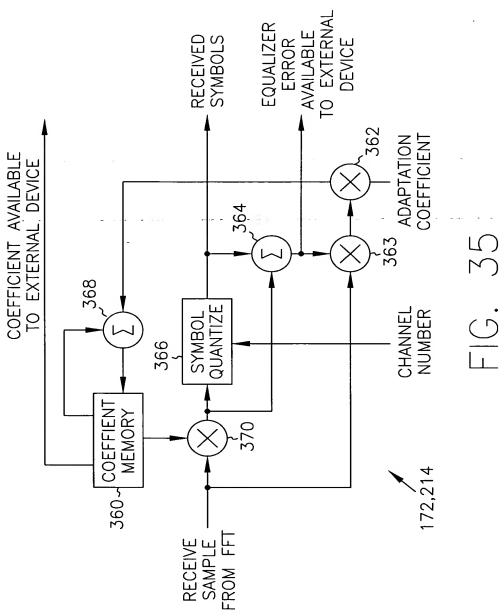














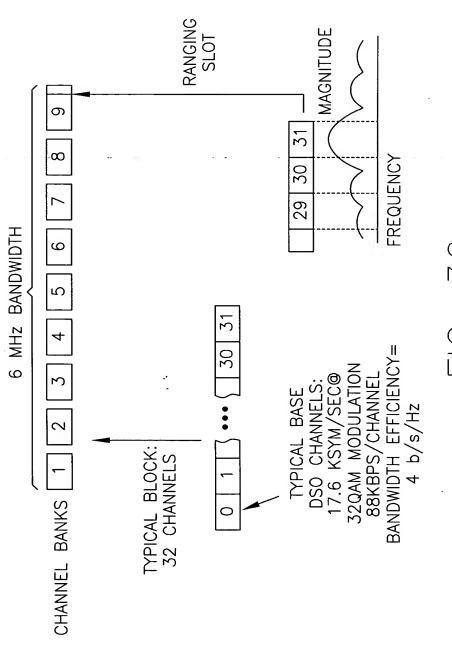
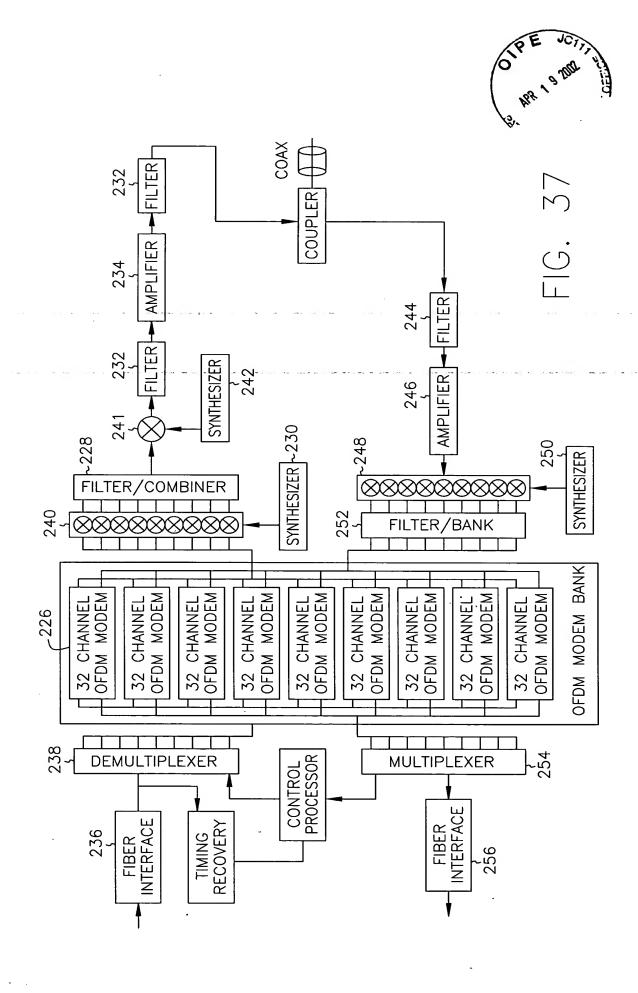
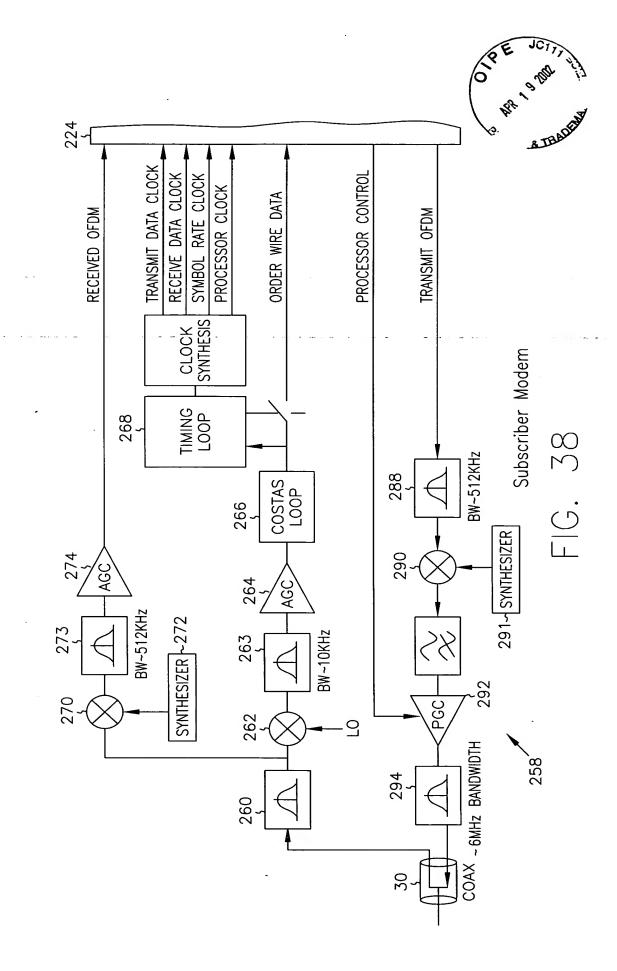
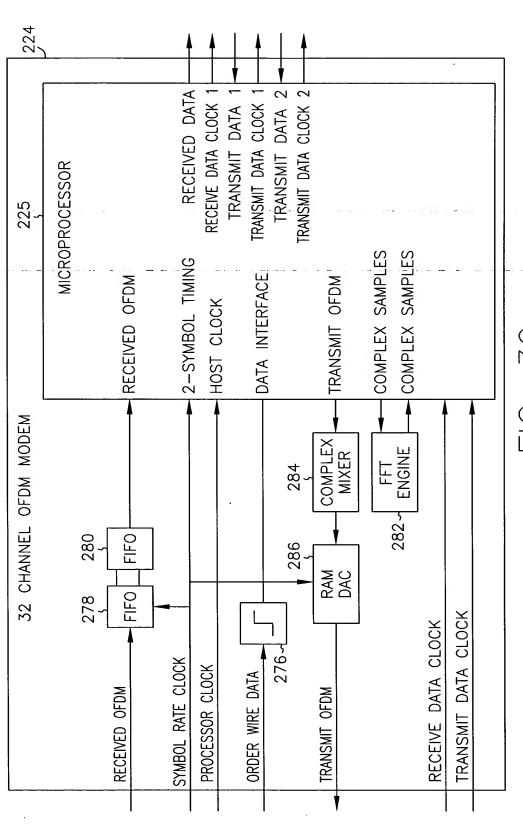


FIG. 36











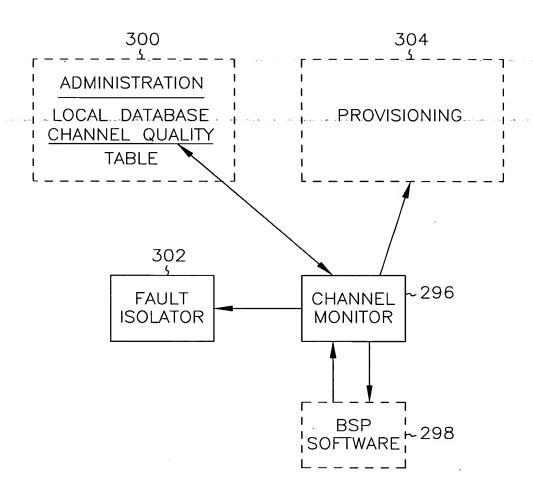
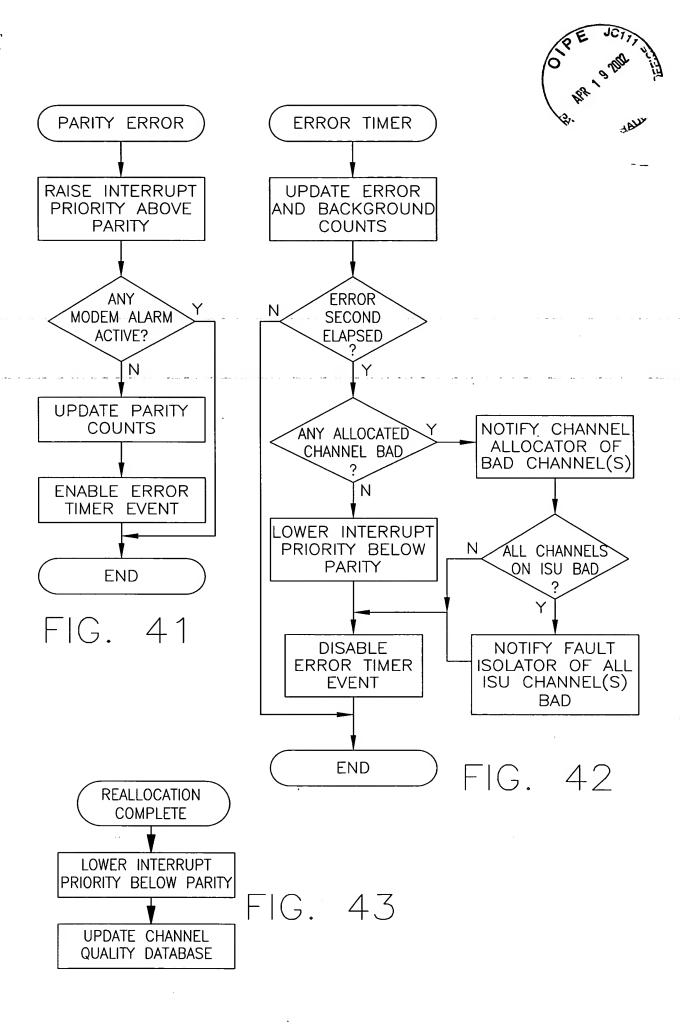
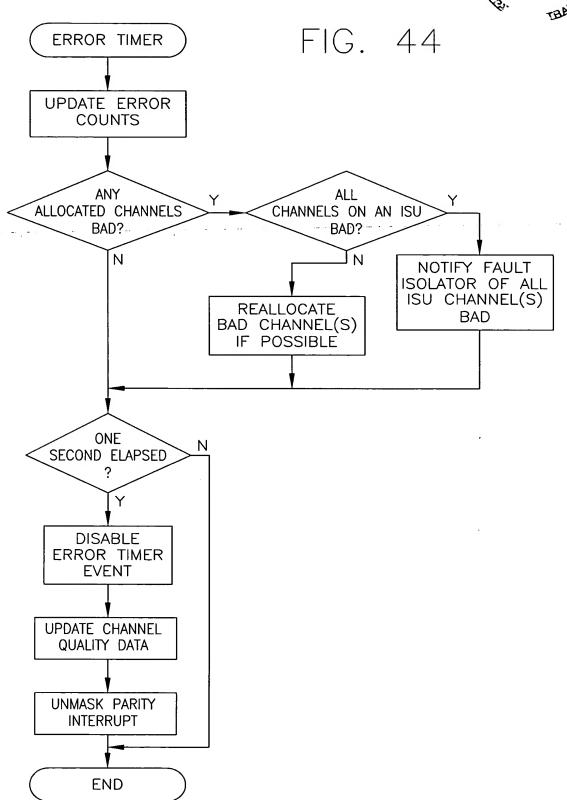


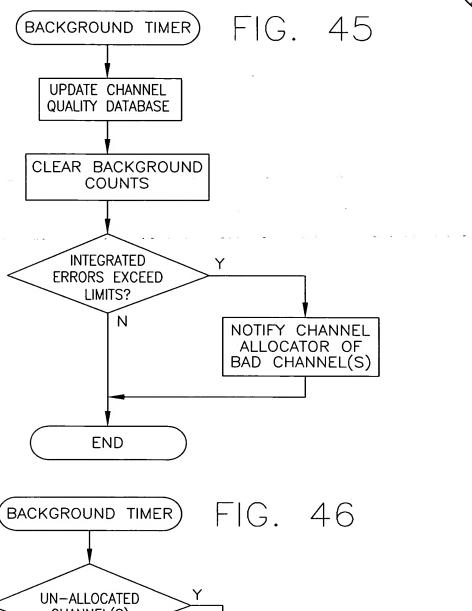
FIG. 40

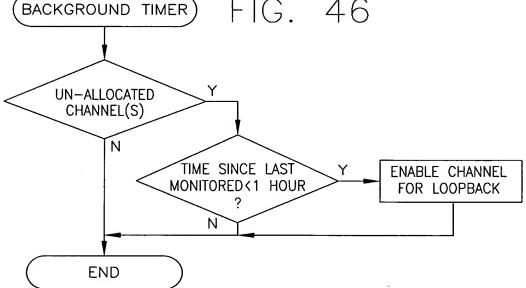












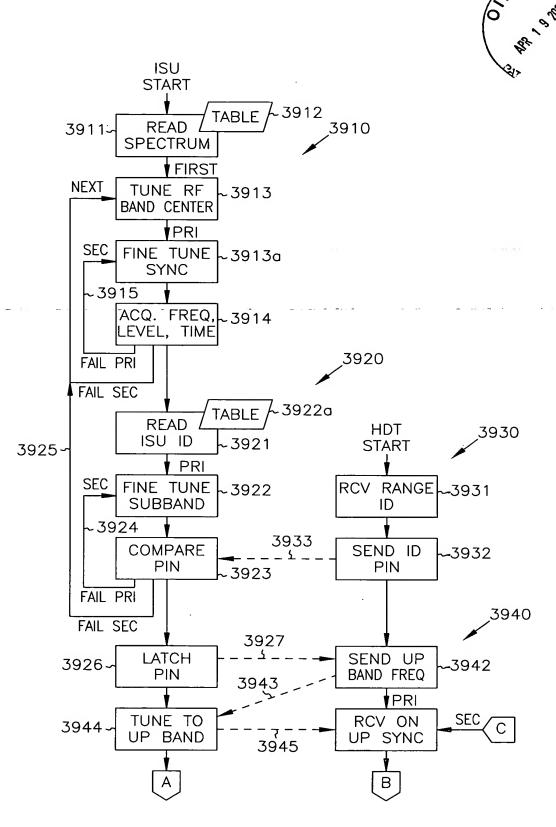
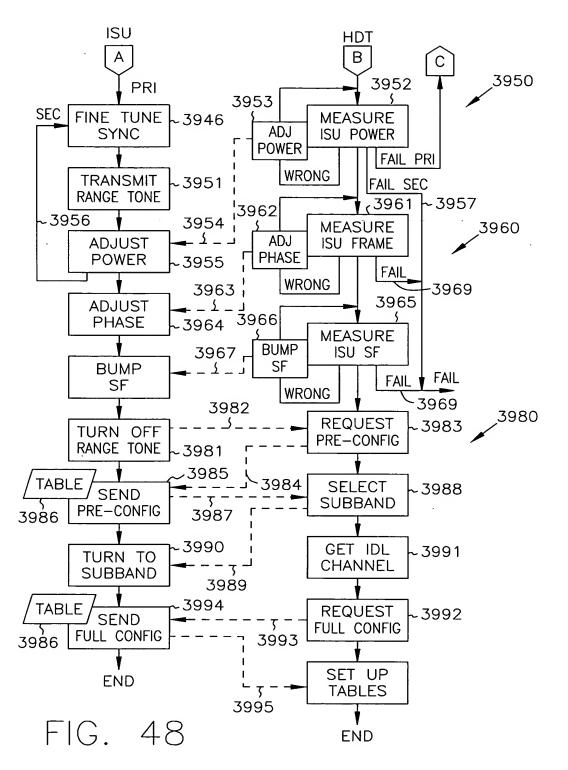


FIG. 47







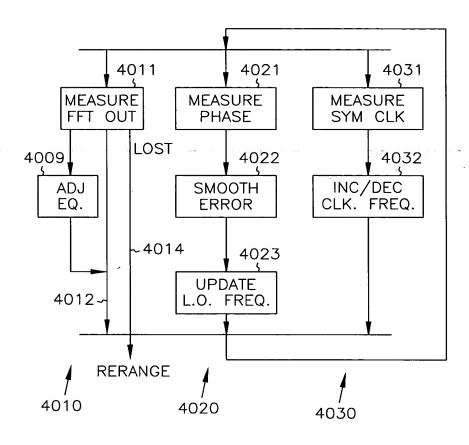


FIG. 49



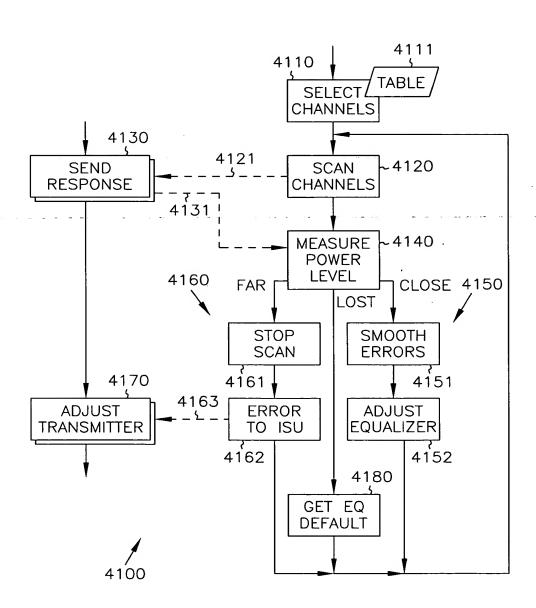
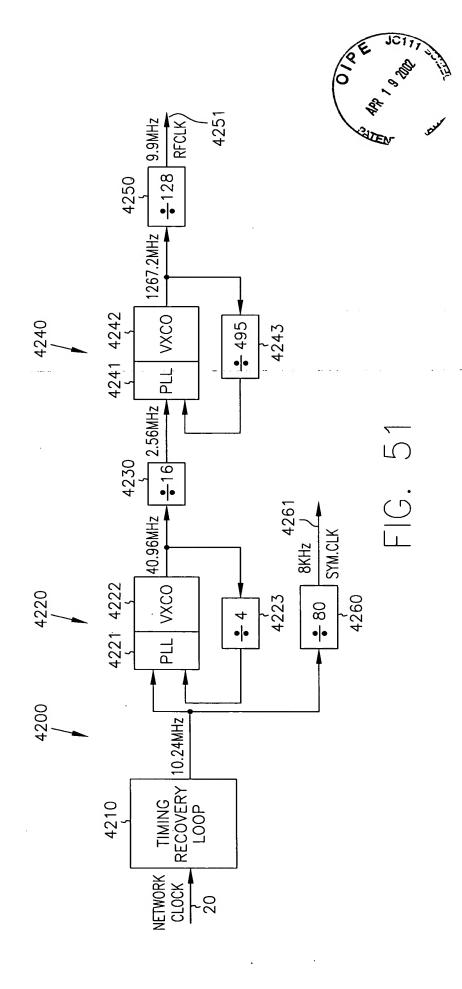


FIG. 50





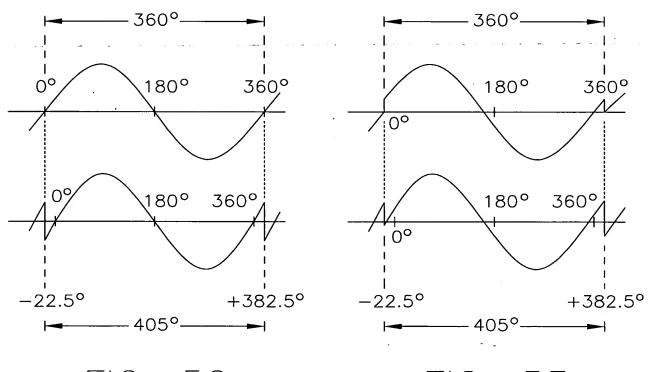
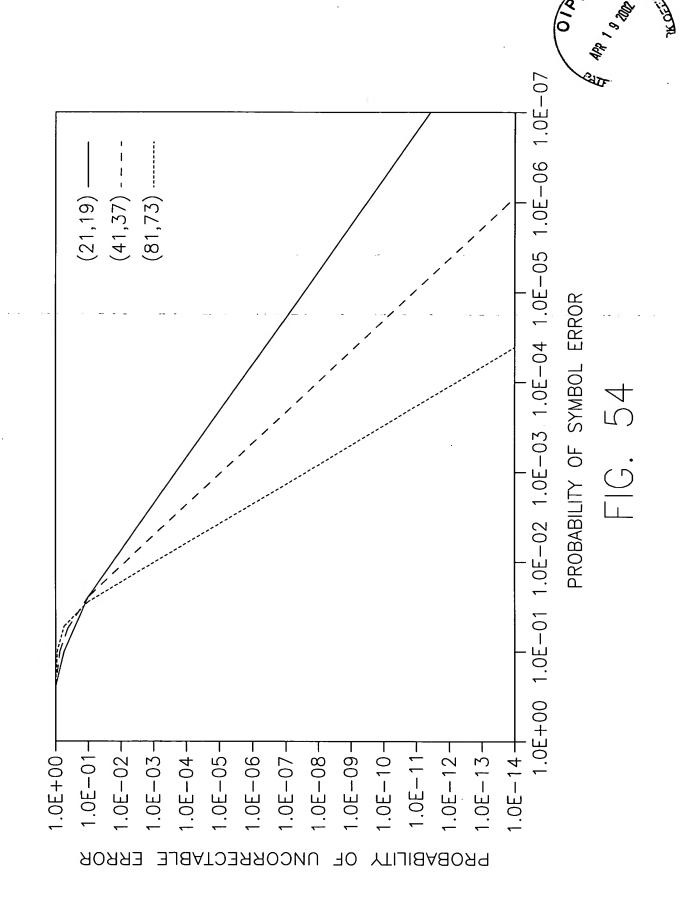


FIG. 52

FIG. 53





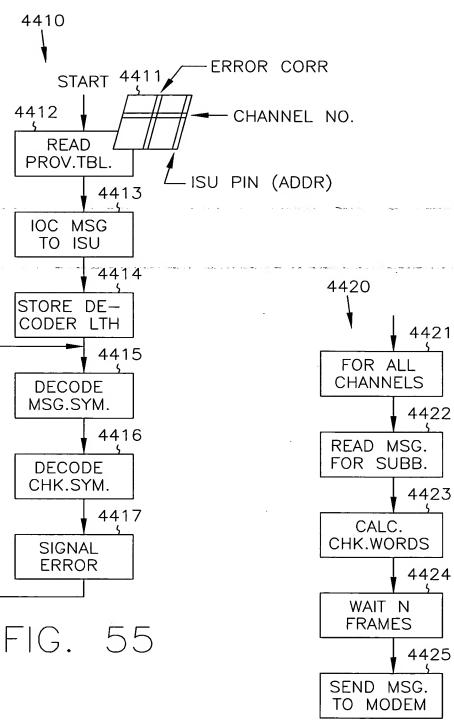


FIG. 56



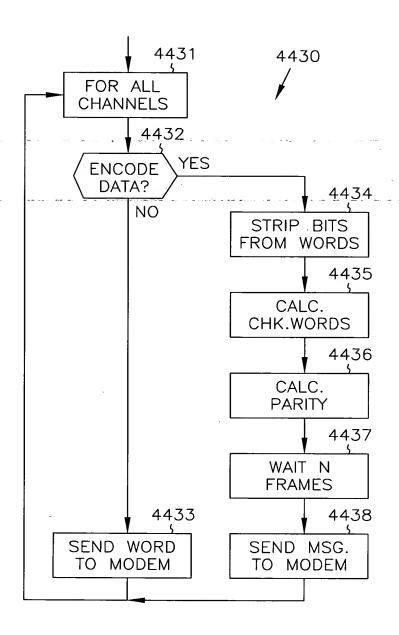
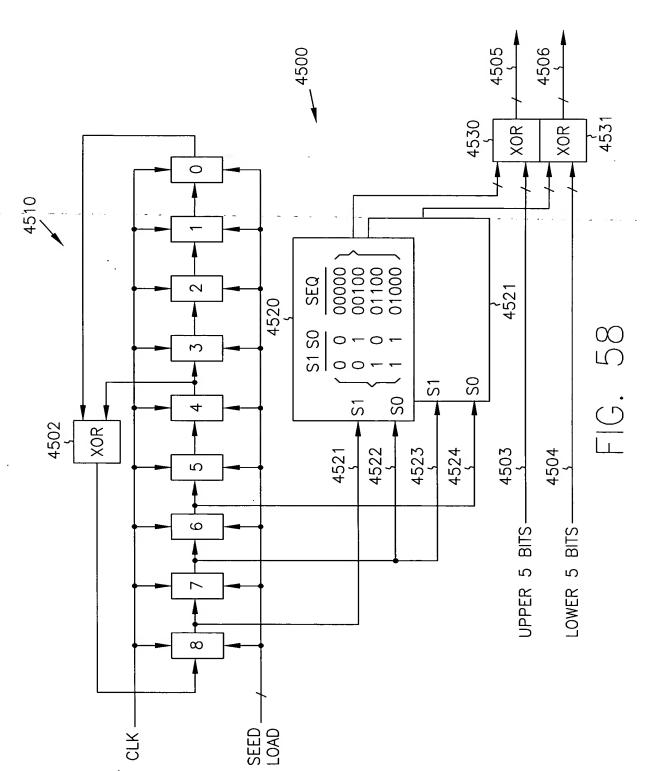


FIG. 57





.



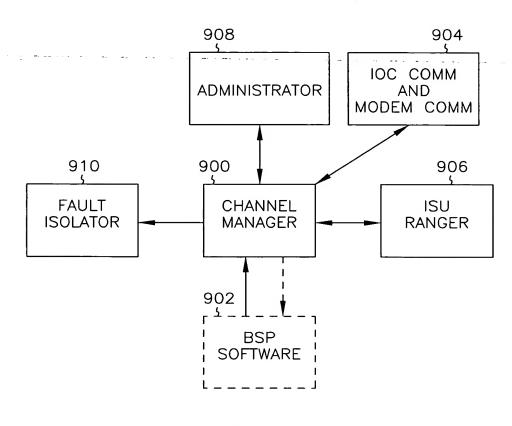
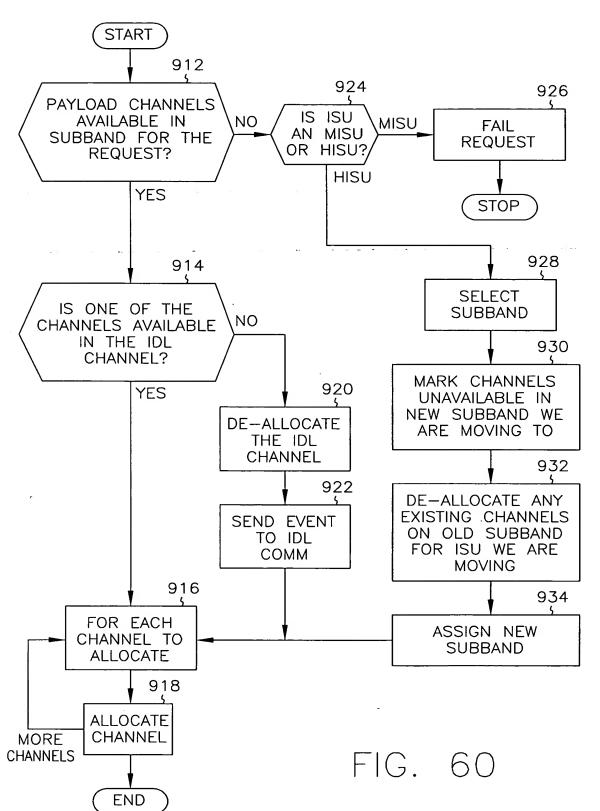


FIG. 59







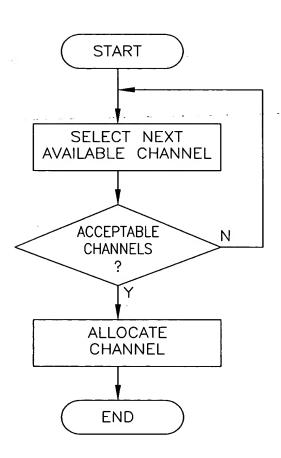


FIG. 61



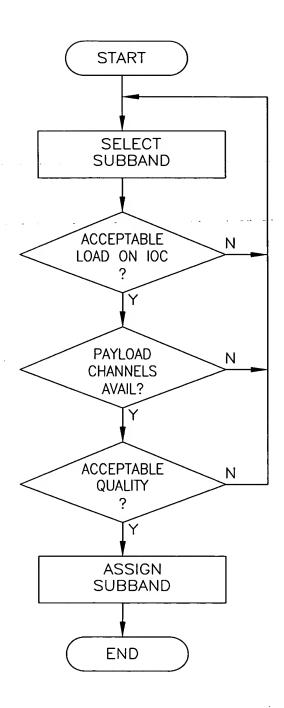


FIG. 62

6 MHz FREQUENCY SPECTRUM

HIGHER LOWER

LOWEST HISU

HIGHEST HISU

/o\/1\2\/3\/4\/5\/6\/7\/8\/9\/10\/11\/12\/13\/4\/15\/6\/17\/18\/19\/20\/21\/22\/23\

HISN #3

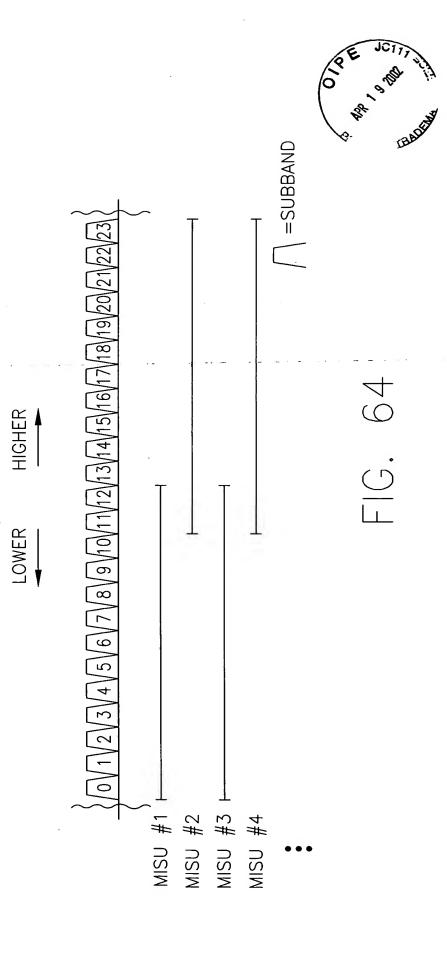
HISU #4

HISU #2

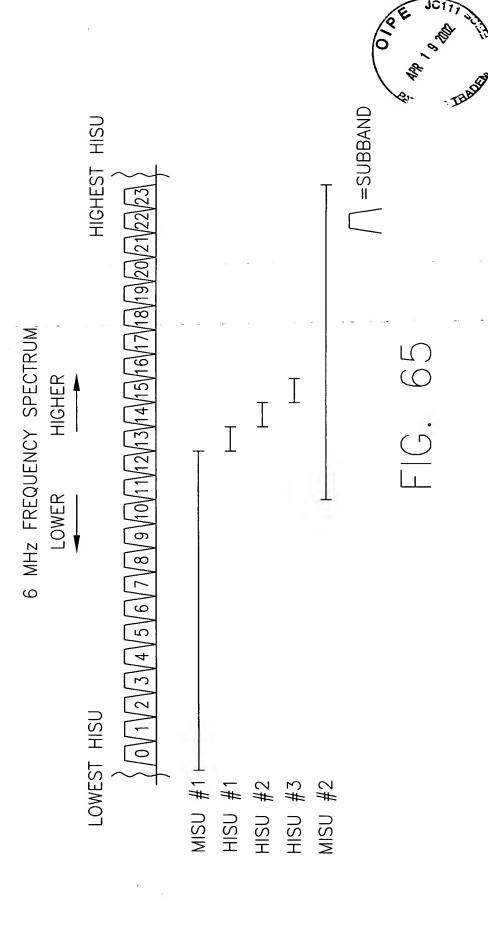
HISU #1

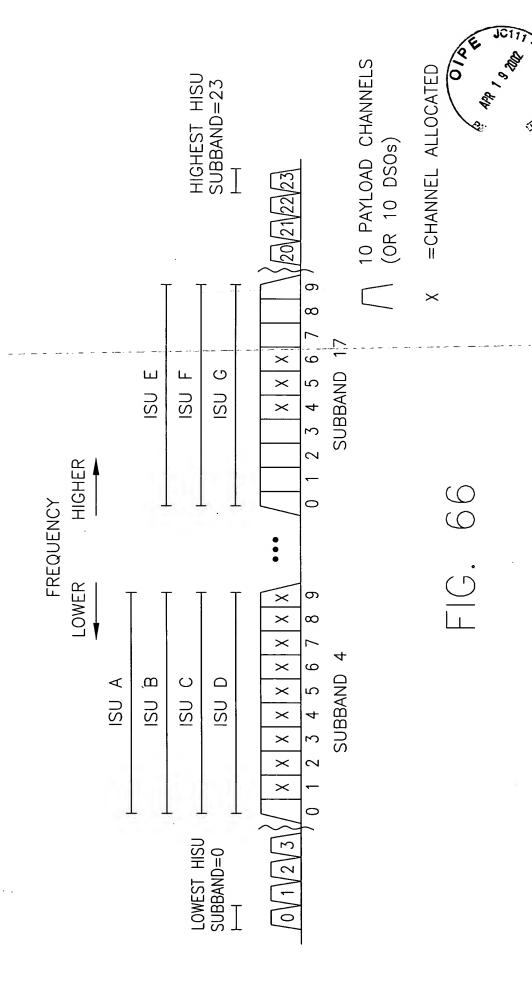
| =SUBBAND

HISU #24 ─



6 MHz FREQUENCY SPECTRUM







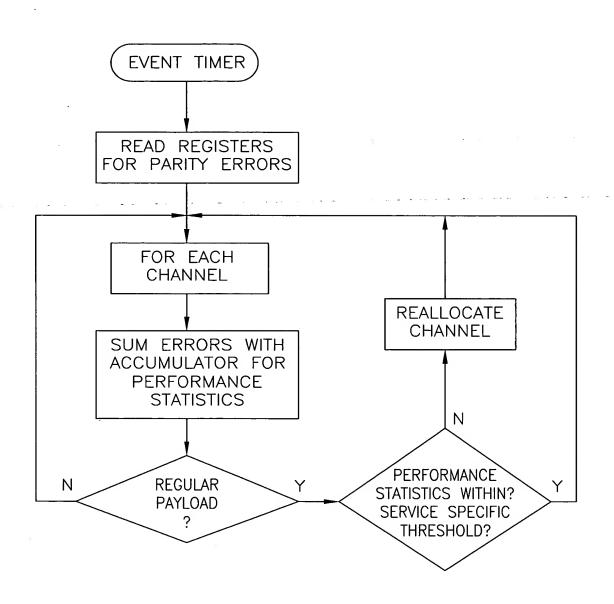


FIG. 68



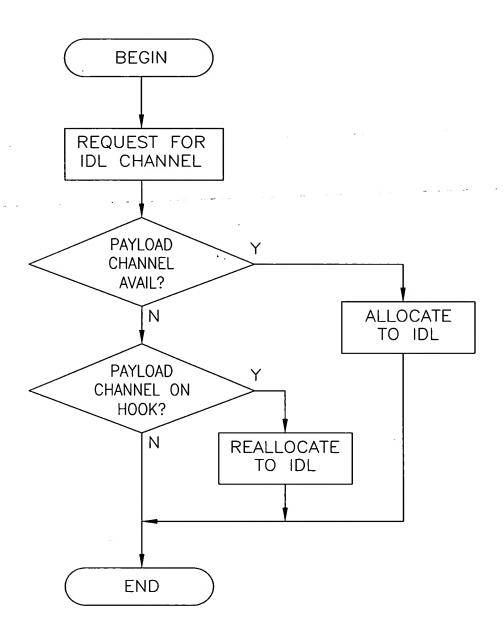
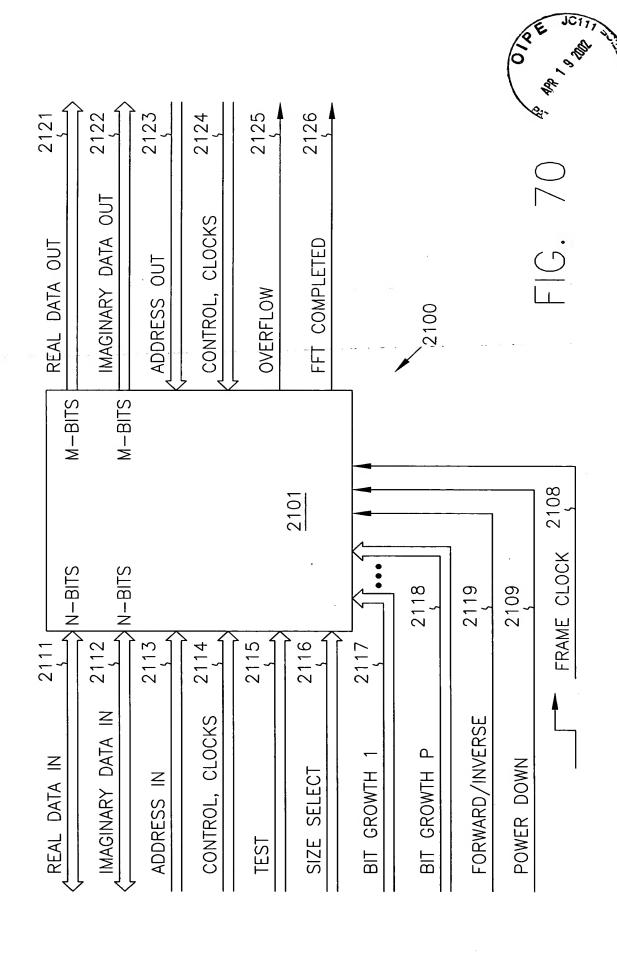
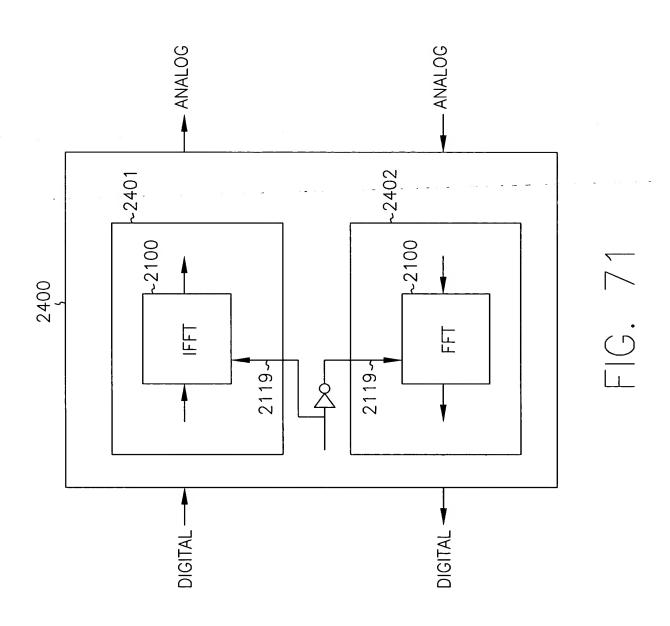
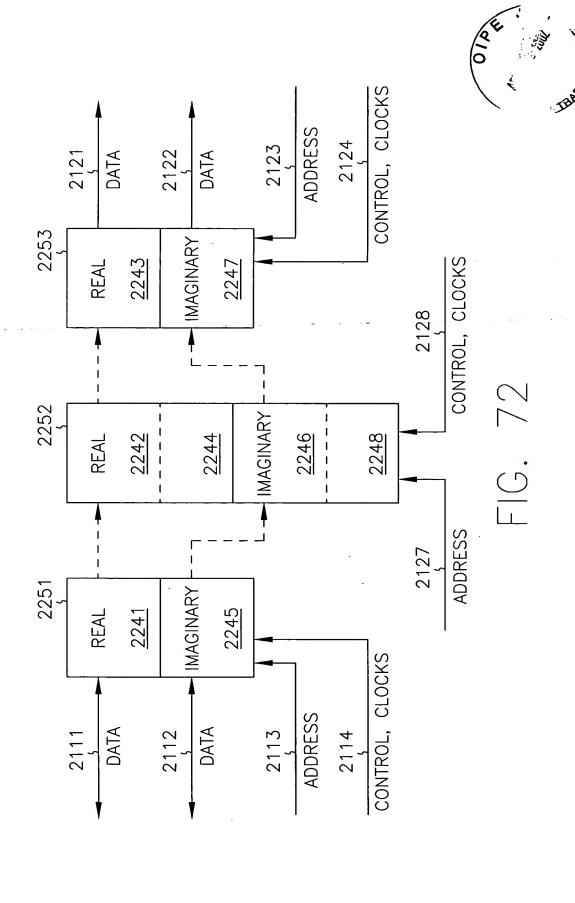


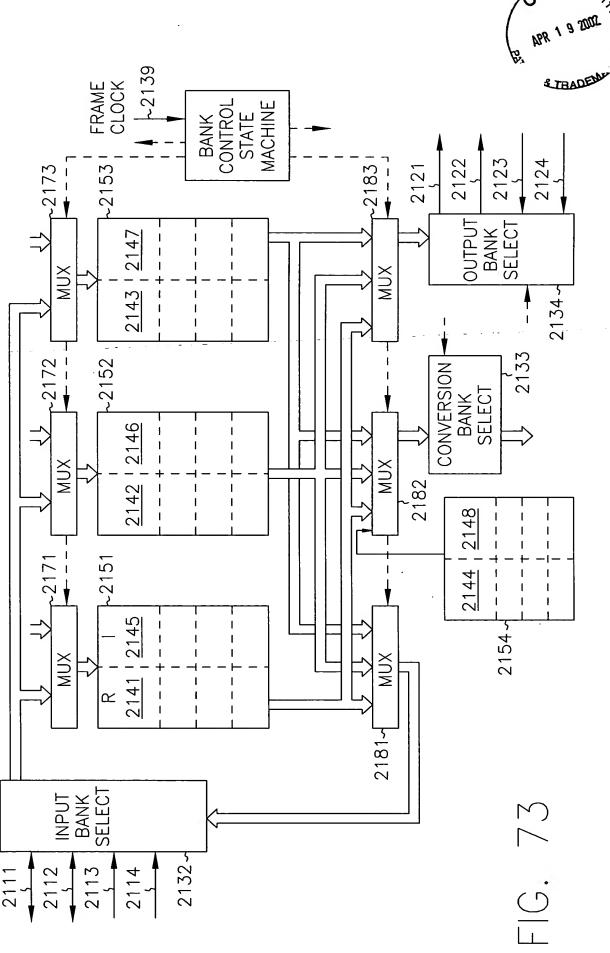
FIG. 69

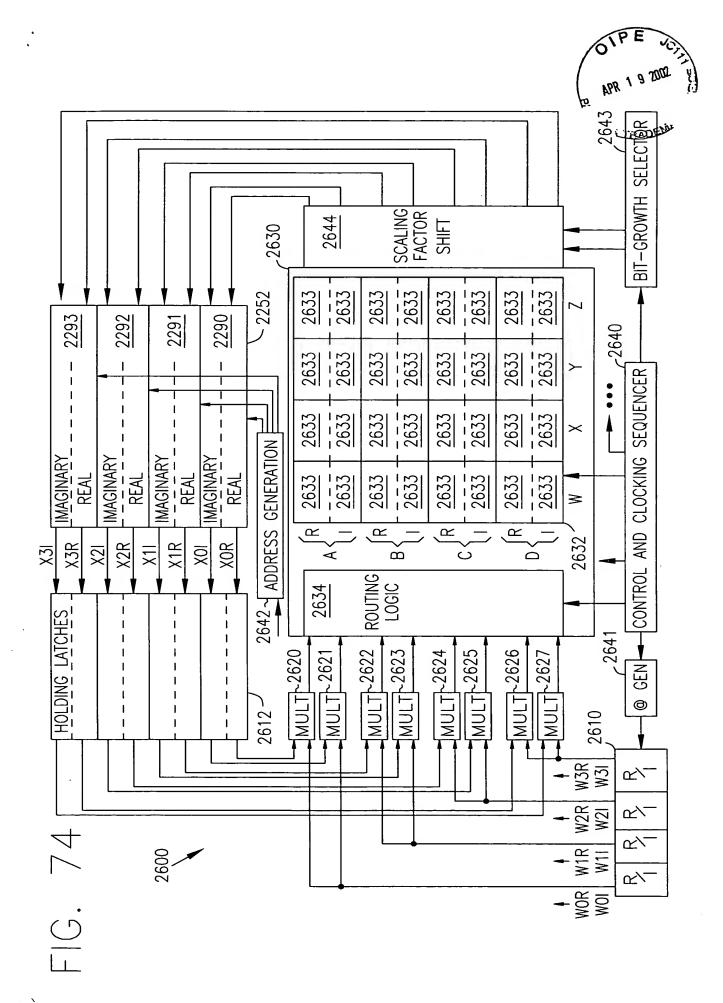












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AZR = ZR	BZR=ZR	CZR=ZR	DZR=ZR
AZI = ZI	BZI =ZI	CZI =ZI	DZI =ZI
AYR = YR	BYR =YR	CYR = YR	DYR =YR
AYI = YI	BYI =YI	CYI = YI	DYI =YI
AXR = XR	BXR=XR	CXR=XR	DXR=XR
AXI = XI	BXI =XI	CXI =XI	DXI =XI
AWR=WR	BWR=WR	CWR=WR	DWR=WR
AWI =WI	BWI =WI	CWI =WI	DWI =WI

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AZR=AZR -ZI	BZR=BZR -ZI	CZR=CZR –ZI	DZR=DZR -ZI
AZI=AZI +ZR	BZI=BZI +ZR	CZI=CZI +ZR	DZI=DZI +ZR
AYR=AYR -YI	BYR=BYR -YI	CYR=CYR -YI	DYR=DYR -YI
AYI=AYI +YR	BYI=BYI +YR	CYI=CYI +YR	DYI=DYI +YR
AXR=AXR -XI	BXR=BXR -XI	CXR=CXR -XI	DXR=DXR -XI
AXI=AXI +XR	BXI=BXI +XR	CXI=CXI +XR	DXI=DXI +XR
AWR=AWR -WI	BWR=BWR-WI	CWR=CWR-WI	DWR=DWR-WI
AWI=AWI +WR	BWI=BWI +WR	CWI=CWI +WR	DWI=DWI +WR

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	AZR=AZR -ZI	BZR=BZR -ZI	CZR=CZR –ZI	DZR=DZR -ZI
	AZI=AZI +ZR	BZI=BZI +ZR	CZI=CZI +ZR	DZI=DZI +ZR
	AYR=AYR -YR AYI=AYI -YI	BYR=BYR -YR BYI=BYI -YI	CYR=CYR -YR CYI=CYI -YI	DYR=DYR -YR DYI=DYI -YI
	AXR=AXR +XI	BXR=BXR +XI	CXR=CXR +XI	DXR=DXR +XI
	AXI=AXI -XR	BXI=BXI -XR	CXI=CXI -XR	DXI=DXI -XR
C2	AWR=AWR +WR	BWR=BWR+WR	CWR=CWR+WR	DWR=DWR+WR
	AWI=AWI +WI	BWI=BWI +WI	CWI=CWI +WI	DWI=DWI +WI

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~2632	•		
	2 – ZR	3 –ZR	R –ZR
	– ZI	–ZI	–ZI
AZR=AZR –ZR	BZR=BZR -ZR	CZR=CZR –ZR	DZR=DZR –ZR
AZI=AZI –ZI	BZI=BZI -ZI	CZI=CZI –ZI	DZI=DZI –ZI
AYR=AYR +YI	BYR=BYR +YI	CYR=CYR +YI	DYR=DYR +YI
AYI=AYI –YR	BYI=BYI -YR	CYI=CYI -YR	DYI=DYI -YR
AXR=AXR +XR	BXR=BXR +XR	CXR=CXR +XR	DXR=DXR +XR
AXI=AXI +XI	BXI=BXI +XI	CXI=CXI +XI	DXI=DXI +XI
AWR=AWR -WI	BWR=BWR-WI	CWR=CWR-WI	DWR=DWR-WI
AWI=AWI +WR	BWI=BWI +WR	CWI=CWI +WR	DWI=DWI +WR

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70	DZR=DZR -ZR	DYR=DYR +YR	DXR=DXR -XR	DWR=DWR+WR
	DZI=DZI -ZI	DYI=DYI +YI	DXI=DXI -XI	DWI=DWI +WI
	CZR=CZR –ZR	CYR=CYR +YR	CXR=CXR -XR	CWR=CWR+WR
	CZI=CZI –ZI	CYI=CYI +YI	CXI=CXI -XI	CWI=CWI +WI
2800	BZR=BZR -ZR	BYR=BYR +YR	BXR=BXR -XR	BWR=BWR+WR
	BZI=BZI -ZI	BYI=BYI +YI	BXI=BXI -XI	BWI=BWI +WI
~2632	AZR=AZR -ZR	AYR=AYR +YR	AXR=AXR -XR	AWR=AWR +WR
	AZI=AZI -ZI	AYI=AYI +YI	AXI=AXI -XI	AWI=AWI +WI

C5

	7 2800		α
332	4		
~2632			
AZR=AZR +ZI	BZR=BZR +ZI	CZR=CZR +ZI	DZR=DZR +ZI
AZI=AZI –ZR	BZI=BZI –ZR	CZI=CZI –ZR	DZI=DZI –ZR
AYR=AYR -YI	BYR=BYR -YI	CYR=CYR -YI	DYR=DYR -YI
AYI=AYI +YR	BYI=BYI +YR	CYI=CYI +YR	DYI=DYI +YR
AXR=AXR +XI	BXR=BXR +XI	CXR=CXR +XI	DXR=DXR +XI
AXI=AXI -XR	BXI=BXI -XR	CXI=CXI -XR	DXI=DXI -XR
AWR=AWR -WI	BWR=BWR-WI	CWR=CWR-WI	DWR=DWR-WI
AWI=AWI +WR	BWI=BWI +WR	CWI=CWI +WR	DWI=DWI +WR

	7 2800		X
~2632	•		
AZR=AZR +ZI	BZR=BZR +ZI	CZR=CZR +ZI	DZR=DZR +ZI
AZI=AZI –ZR	BZI=BZI –ZR	CZI=CZI –ZR	DZI=DZI –ZR
AYR=AYR -YR	BYR=BYR -YR	CYR=CYR -YR	DYR=DYR -YR
AYI=AYI -YI	BYI=BYI -YI	CYI=CYI -YI	DYI=DYI -YI
AXR=AXR -XI	BXR=BXR -XI	CXR=CXR -XI	DXR=DXR -XI
AXI=AXI +XR	BXI=BXI +XR	CXI=CXI +XR	DXI=DXI +XR
AWR=AWR +WR	BWR=BWR+WR	CWR=CWR+WR	DWR=DWR+WR
AWI=AWI +WI	BWI=BWI +WI	CWI=CWI +WI	DWI=DWI +WI

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	2800		α
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AZR=AZR –ZR	BZR=BZR – ZR	CZR=CZR –ZR	DZR=DZR –ZR
AZI=AZI +ZI	BZI=BZI + ZI	CZI=CZI +ZI	DZI=DZI +ZI
AYR=AYR +YI	BYR=BYR +YI	CYR=CYR +YI	DYR=DYR +YI
AYI=AYI –YR	BYI=BYI -YR	CYI=CYI -YR	DYI=DYI -YR
AXR=AXR -XR	BXR=BXR -XR	CWR=CWR-WI CXR=CXR -XR	DXR=DXR -XR
AXI=AXI -XI	BXI=BXI -XI	CWI=CWI +WR CXI=CXI -XI	DXI=DXI -XI
AWR=AWR -WI	BWR=BWR-WI	CWR=CWR-WI	DWR=DWR-WI
AWI=AWI +WR	BWI=BWI +WR	CWI=CWI +WR	DWI=DWI +WR

 C_{7}

THIS TABLE SHOWS THE ORDER OF CALCULATION FOR A TRANSPOSED BUTTERFLY:

·. :

=WR+XR+YR+ZR	,			7,5052	
	AWR =WR+XR+YR+ZR AWI =WI+XI+YI+ZI	AXR =WR-XI-YR+ZI AXI =WI+XR-YI-ZR	AYR =WR-XR+YR-ZR AYI =WI-XI+YI-ZI	AZR =WR+XI-YR-ZI AZI =WI-XR-YI+ZR	2810
		1	1	-	•
		I	1	1	
		ı	I	1	
		ı	1	1	
AYR = AYR - (WI-XI+YI-ZI)				-1	1
AXR =AXR-(WI+XR-YI-ZR) AYR =AYR-(WI-XI+YI-ZI) AZR =AZR-(WI-XR-YI+ZR) AXI =AXI+(WR-XI-YR-ZI) AYI =AYI+(WR-XR+YR-ZR) AZI =AZI+(WR+XI-YR-ZI)		ſ	1	ı	
AXR =AXR-(WI+XR-YI-ZR) AYR =AYR-(WI-XI+YI-ZI) AZR =AZR-(WI-XR-YI+ZR) 2810 AXI =AXI+(WR-XI-YR-ZI) AYI =AYI+(WR-XR+YR-ZR) AZI =AZI+(WR+XI-YR-ZI) 2810 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th></th> <th></th> <th></th> <th>2632</th> <th></th>				2632	
THADES OF THE PROPERTY OF THE	R = AWR-(WI+XI+YI+ZI) = AWI+(WR+XR+YR+ZR)	AXR =AXR-(WI+XR-YI-ZR) AXI =AXI+(WR-XI-YR+ZI)	AYR =AYR-(WI-XI+YI-ZI) AYI =AYI+(WR-XR+YR-ZR)		
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		-		FIG.	

	2810	_					Ω			0187	.		(B	APR 1	g 2000
, 2632	2	BZR =WR+XI-YR-ZI BZI =WI-XR-YI+ZR	ı	1	. 1	1	FIG. 85	2632		7	BZR =BZR-(WI-XR-YI+ZR) BZI =BZI+(WR+XI-YR-ZI)	1	1	1	ı
		BYR =WR-XR+YR-ZR BYI =WI-XI+YI-ZI	1	-	1		- c -		 I	1	BYR =BYR-(WI-XI+YI-ZI) BYI =BYI+(WR-XR+YR-ZR)	I			ı
	1 1	BXR =WR-XI-YR+ZI BXI =WI+XR-YI-ZR	1	I	I	ı			1		BXR =BXR-(WI+XR-YI-ZR) BXI =BXI+(WR-XI-YR+ZI)			1	1.
. C2.	:	BWR =WR+XR+YR+ZR BWI =WI+XI+YI+ZI	1	í	1	ı		C3	1	1	BWR =BWR-(WI+XI+YI+ZI) BWI =BWI+(WR+XR+YR+ZR)	1	1	1	

FIG. 8 (Mar. 11)

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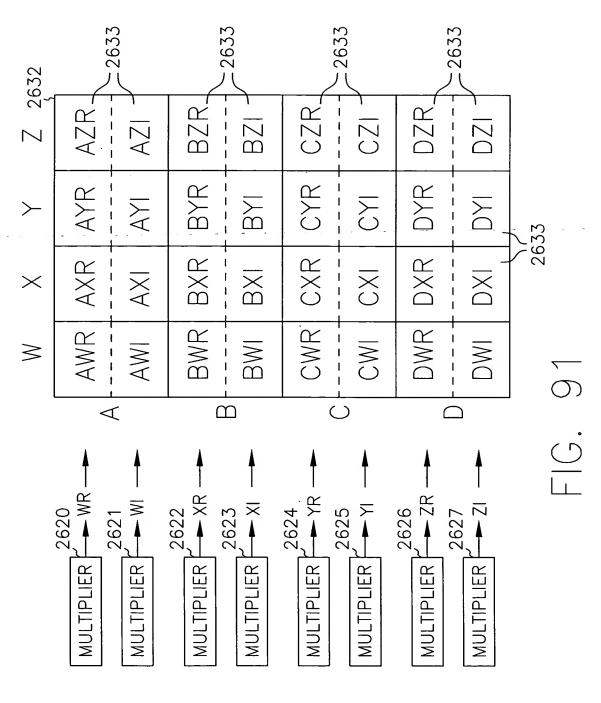
	2810	`					<u></u>		0	7810	`		(ge,	λ,
, 2632		. 1	_	CZR =WR+XI-YR-ZI CZI =WI-XR-YI+ZR	I	ı	FIG. 8	2632	I	_	-		CZR =CZR-(WI-XR-YI+ZR) CZI =CZI+(WR+XI-YR-ZI)	-	1
	-	1	-	CYR =WR-XR+YR-ZR CYI =WI-XI+YI-ZI	ı	-		-	!		1		CYR =CYR-(WI-XI+YI-ZI) CYI =CYI+(WR-XR+YR-ZR)		ı
	1 1	-	_	CXR =WR-XI-YR+ZI CXI =WI+XR-YI-ZR	_	1			1	1	_	I	CXR =CXR-(WI+XR-YI-ZR) CXI =CXI+(WR-XI-YR+ZI)	ı	ı
C4		1	ı	CWR =WR+XR+YR+ZR CWI =WI+XI+YI+ZI		ı		C5	1	1	I	ı	CWR =CWR-(WI+XI+YI+ZI) CWI =CWI+(WR+XR+YR+ZR)	ł	I

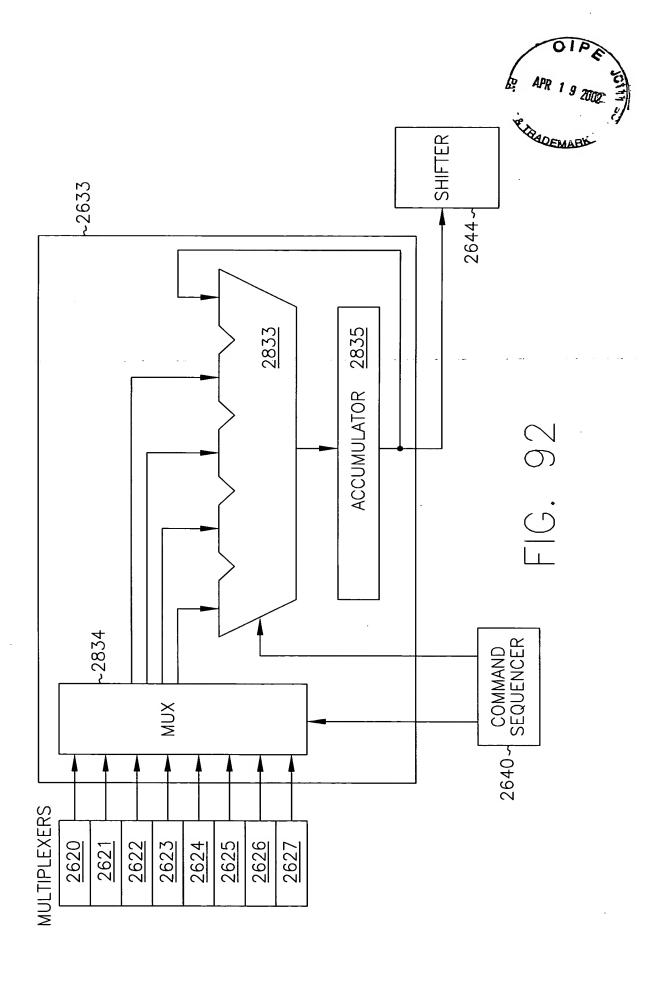
FG. 88

	0.70	0187	`					○○○		0	7810 /	`			(B.	APR 1 9 TOTAL
, 2632	1	1	ı	1	I		DZR =WR+XI-YR-ZI DZI =WI-XR-YI+ZR	FIG. 8	, 2632	ı	ı	I	1	1	1	DZR =DZR-(WI-XR-YI+ZR) DZI =DZI+(WR+XI-YR-ZI)
	I			_			DYR =WR-XR+YR-ZR DYI =WI-XI+YI-ZI			·	1	ı	I	ı	1	DYR =DYR-(WI-XI+YI-ZI) DYI =DYI+(WR-XR+YR-ZR)
	ı	-	I	I	I		DXR =WR-XI-YR+ZI DXI =WI+XR-YI-ZR			I	i		ı		-	DXR =DXR-(WI+XR-YI-ZR) DXI =DXI+(WR-XI-YR+ZI)
. 90		1		ı	I	1	DWR =WR+XR+YR+ZR DWI =WI+XI+YI+ZI		C7	1	ı	1	ı	ı	1	DWR = DWR-(WI+XI+YI+ZI) DWI = DWI+(WR+XR+YR+ZR)

FIG. 90m









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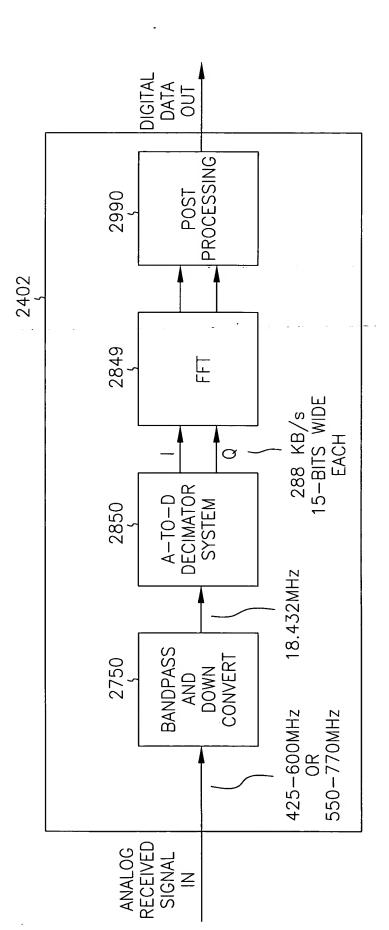
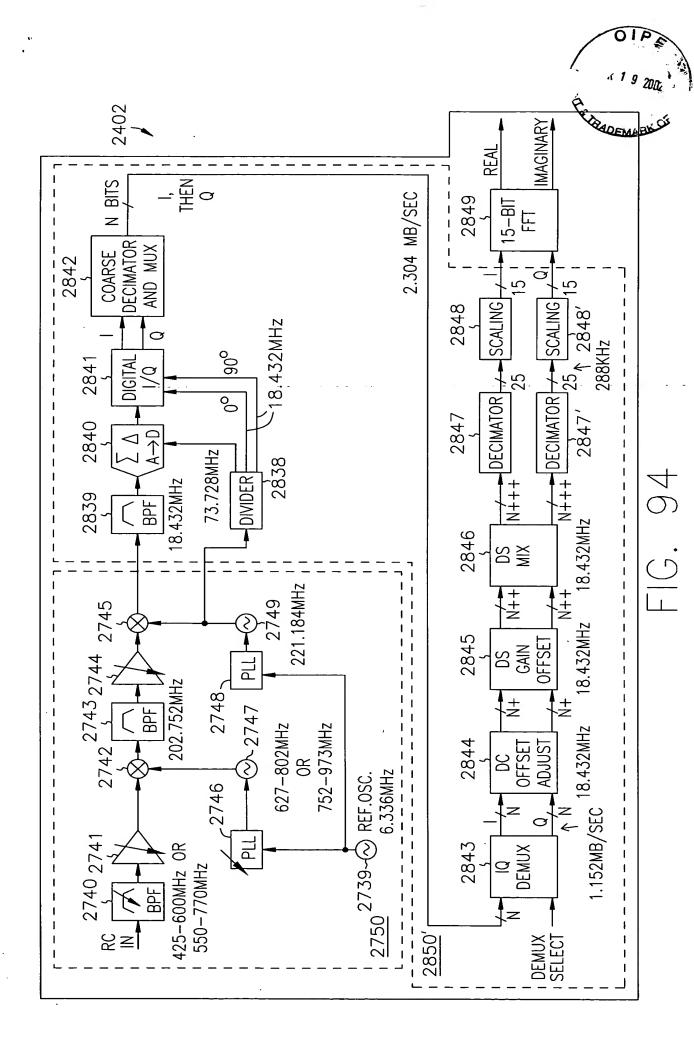
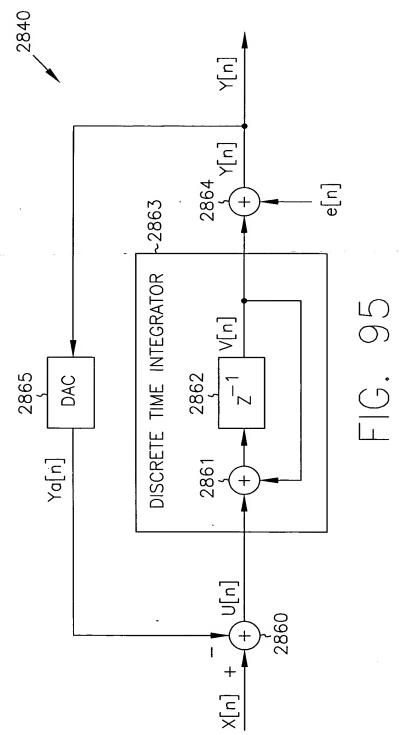
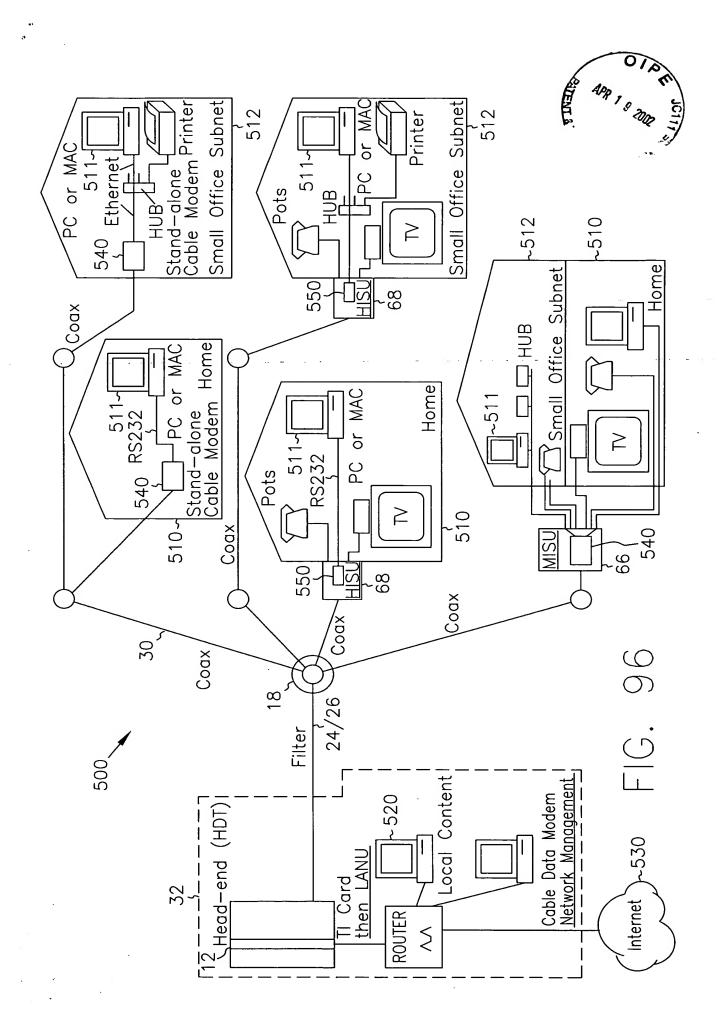


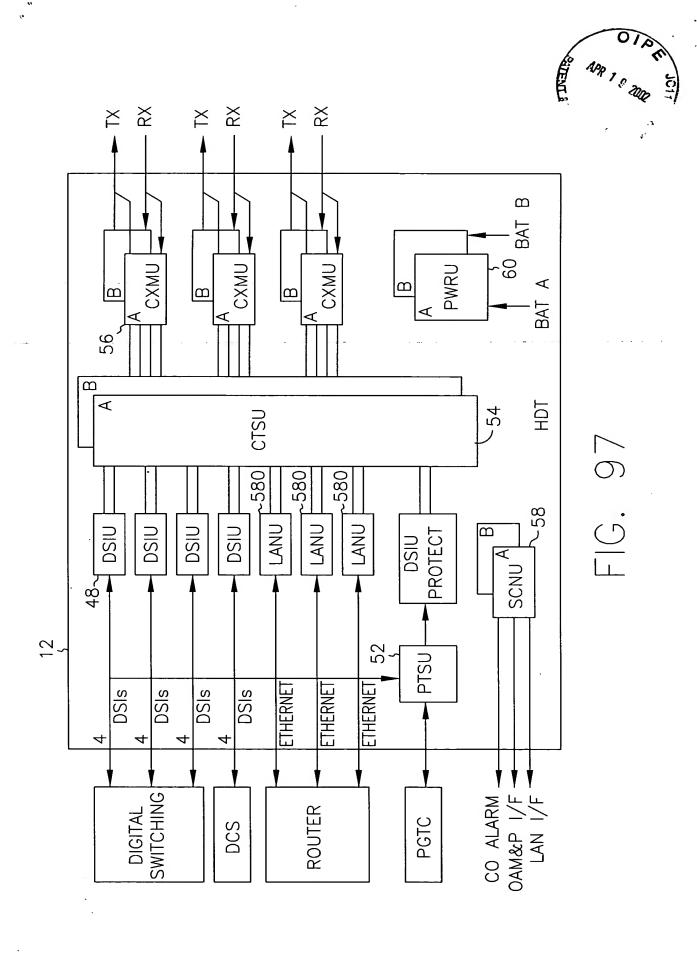
FIG. 93





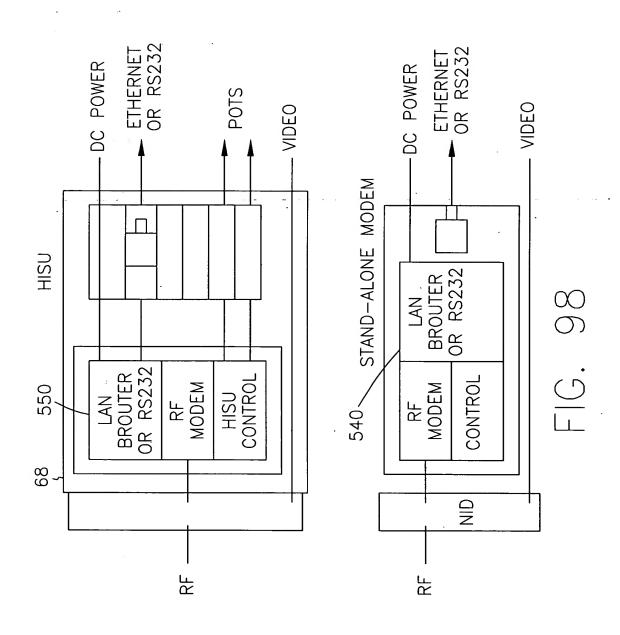


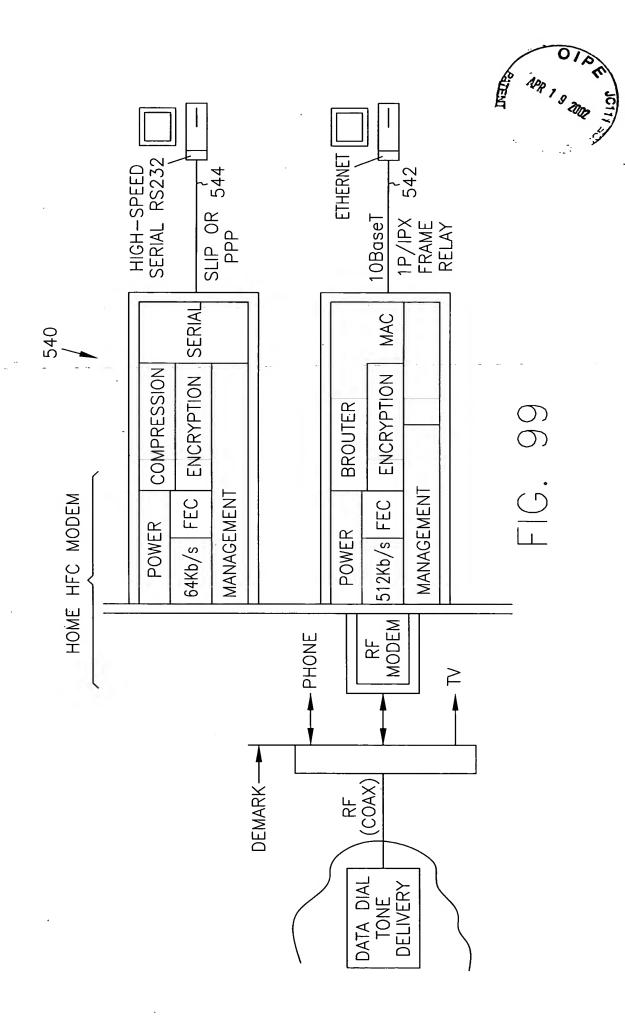




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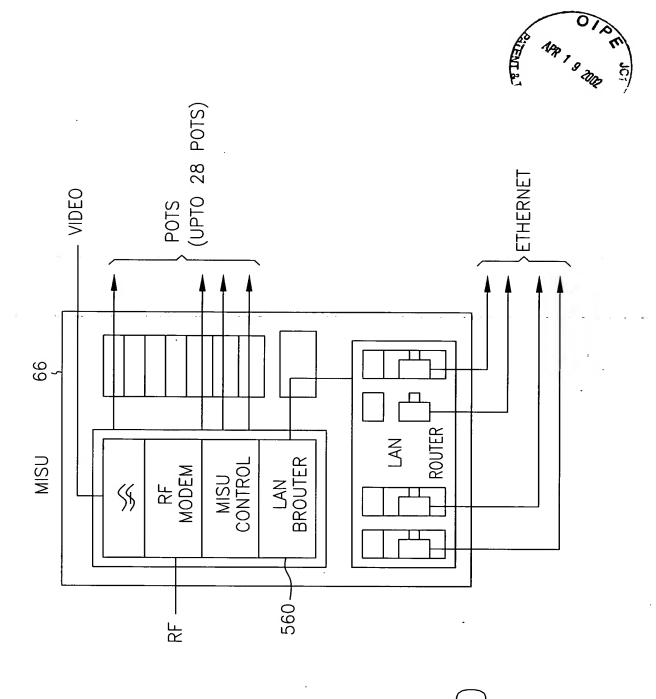


FIG. 10(



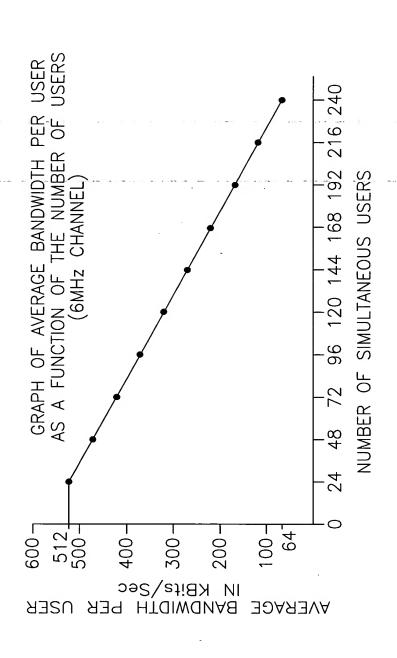
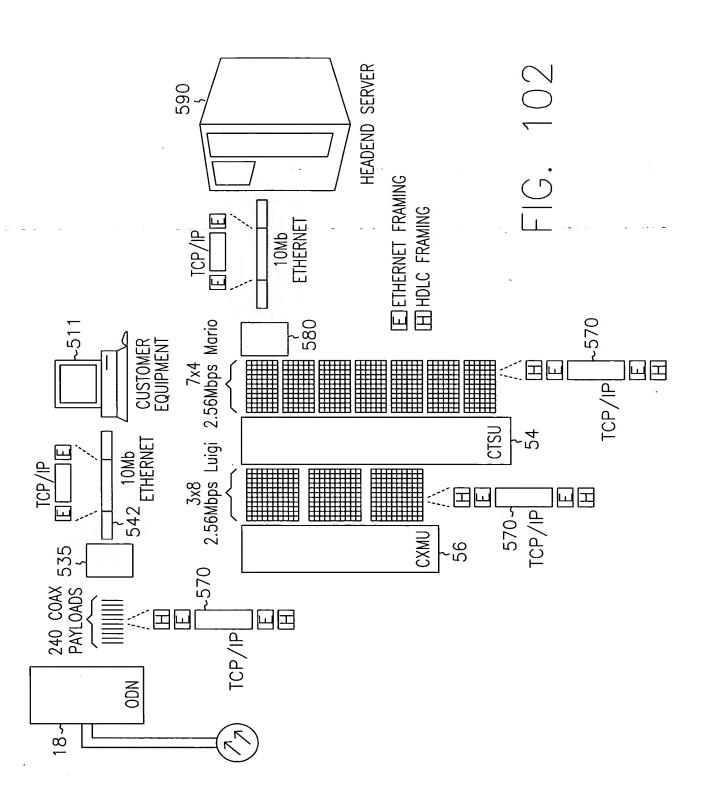
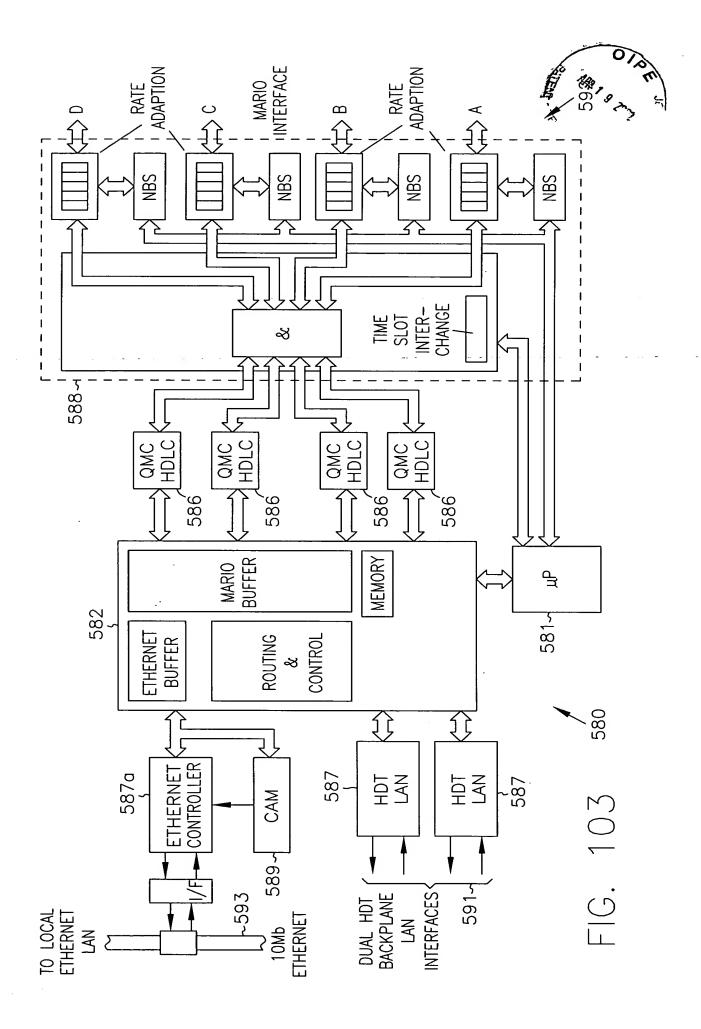
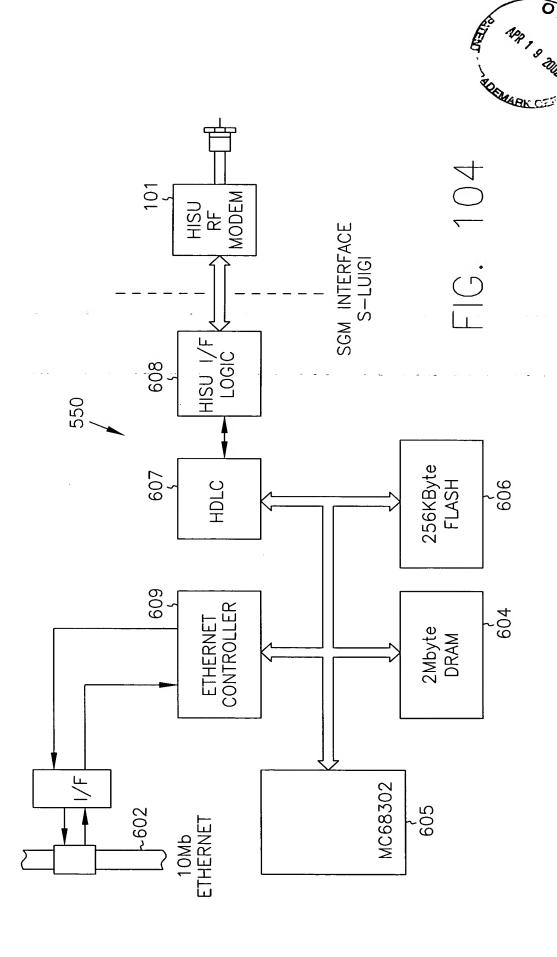


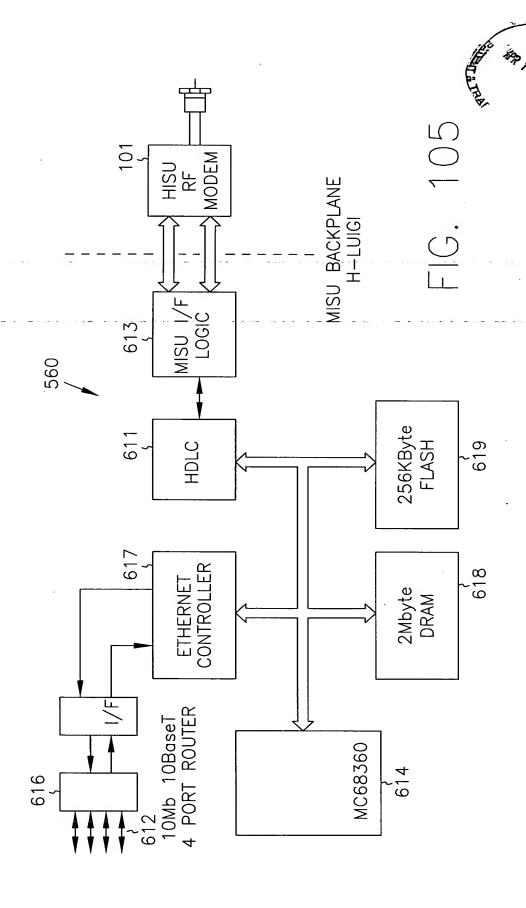
FIG. 101



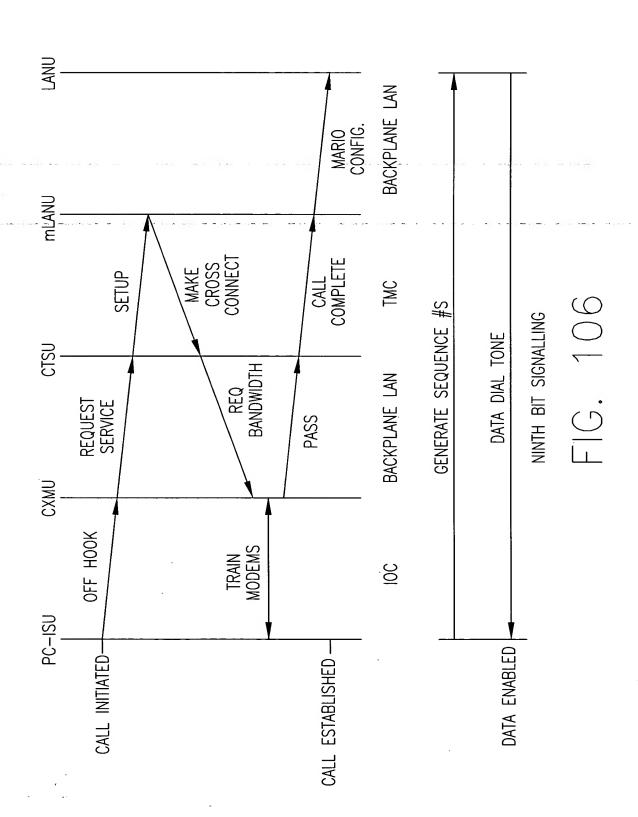




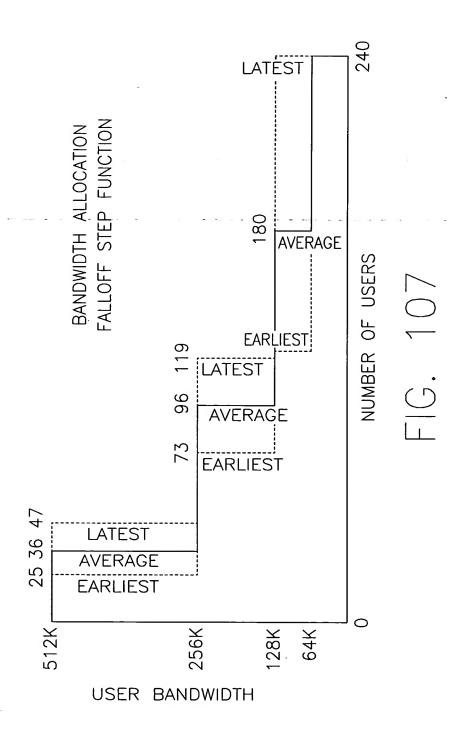














8 | 9 | 10 | 1 1 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 SPECTRUM OF 24 USERS WITH 512Kbs 9 K L <u></u> HE 4

FIG. 108

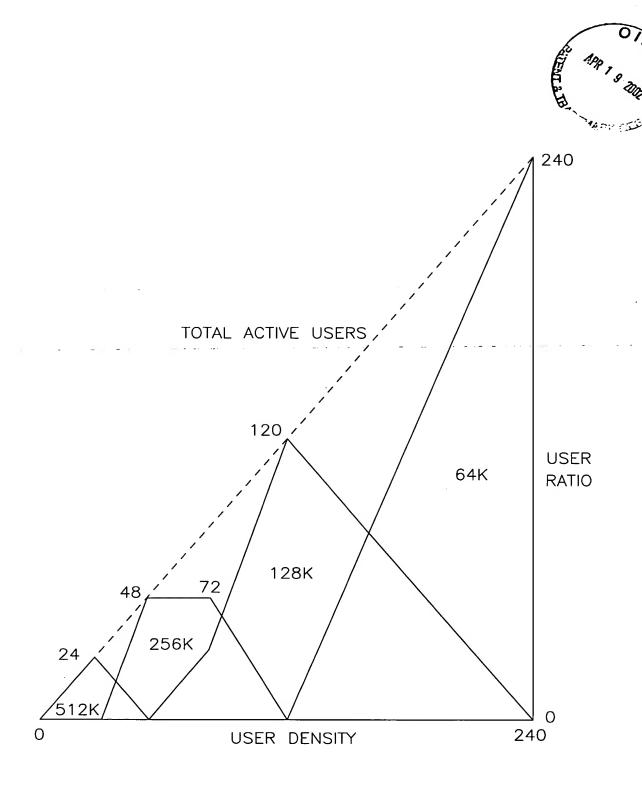


FIG. 109



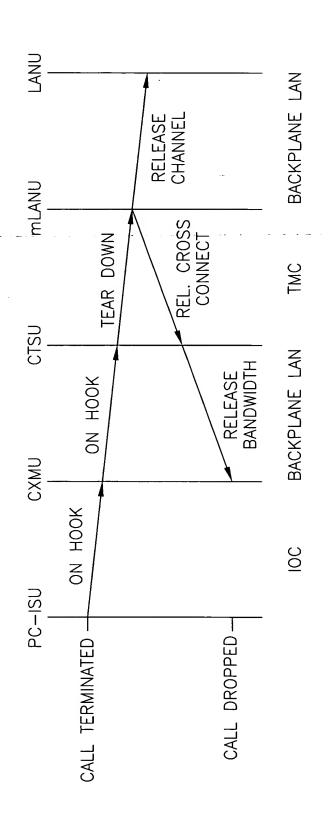
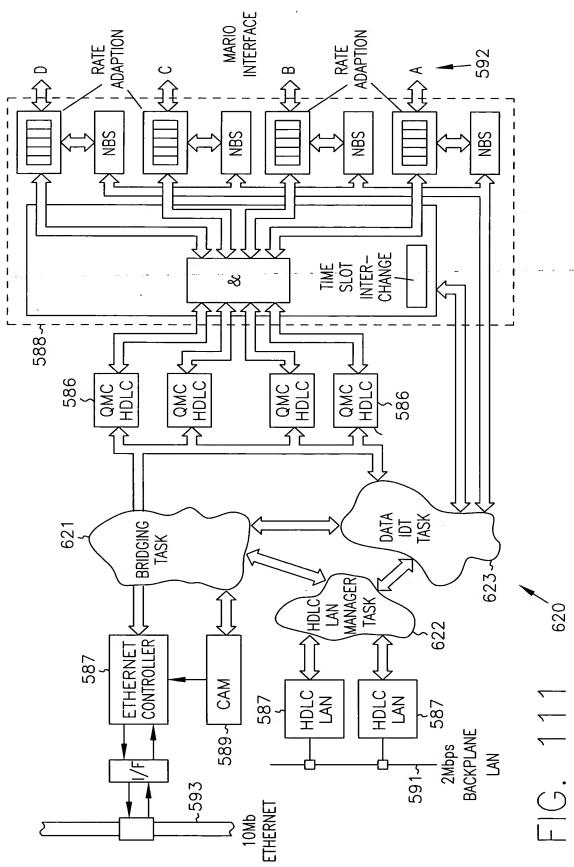


FIG. 110





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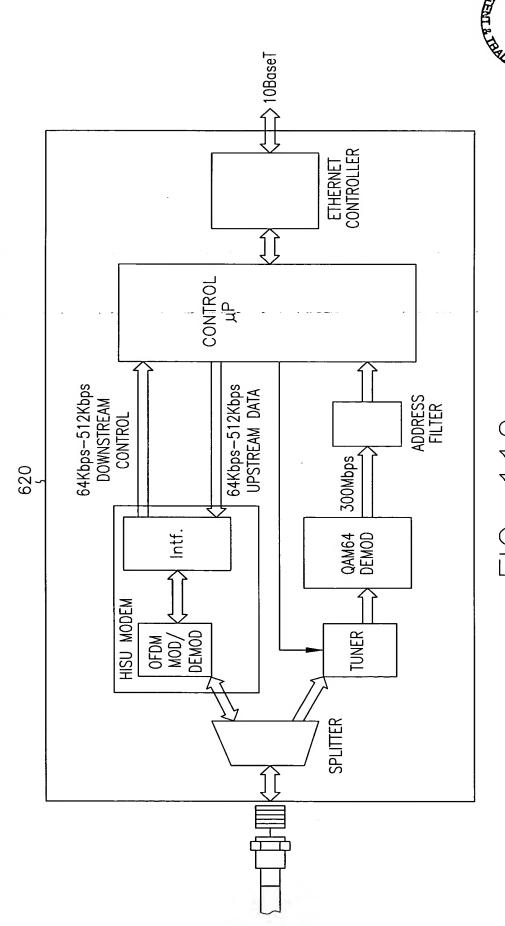


FIG. 17

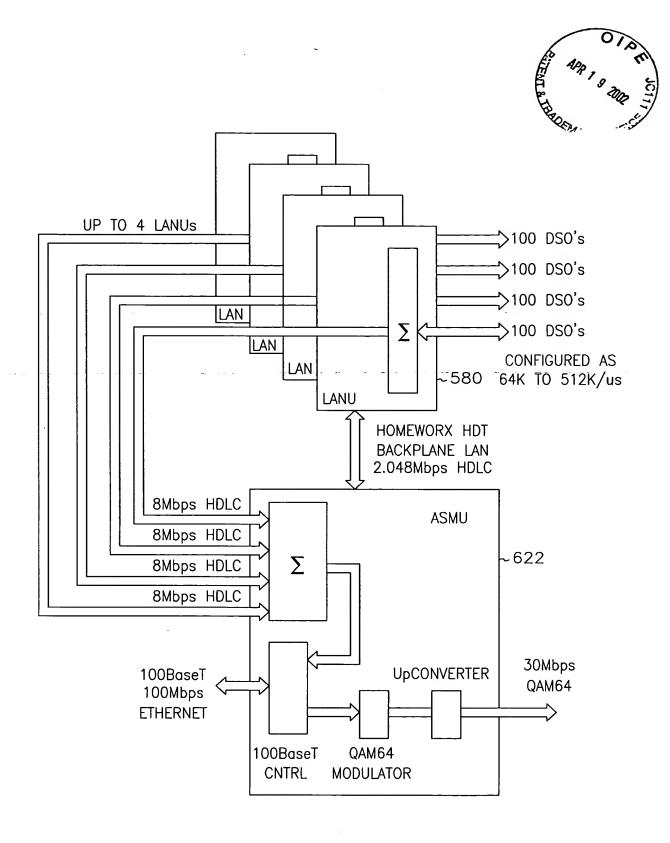
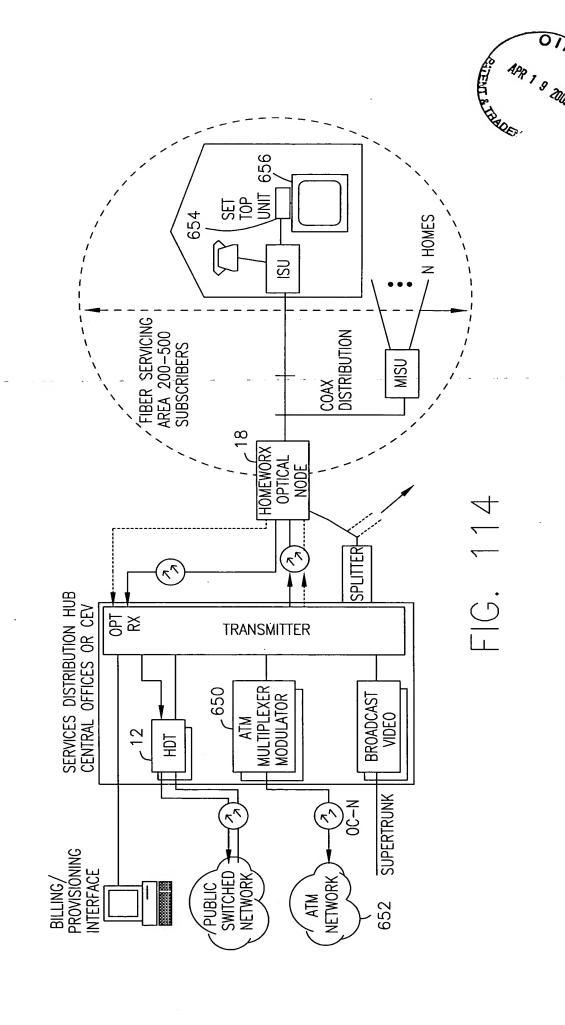


FIG. 113





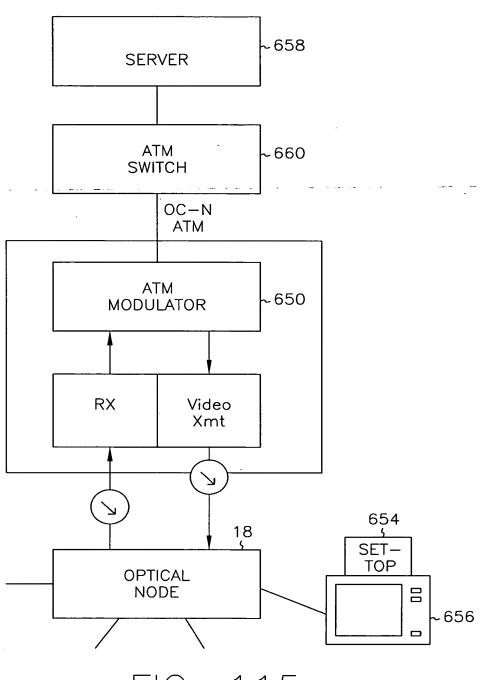
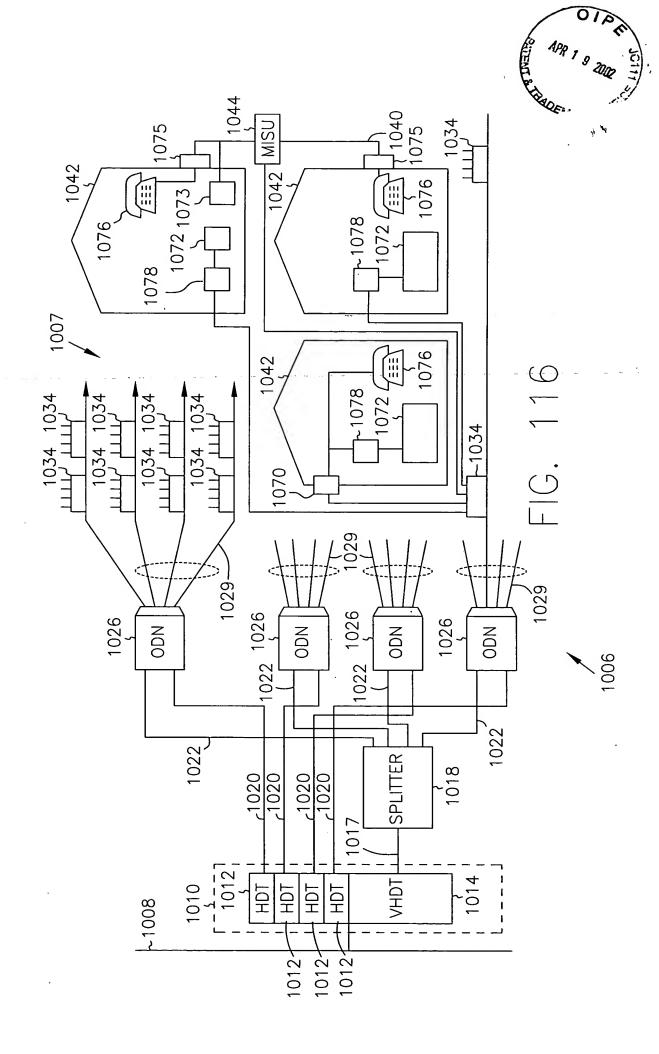
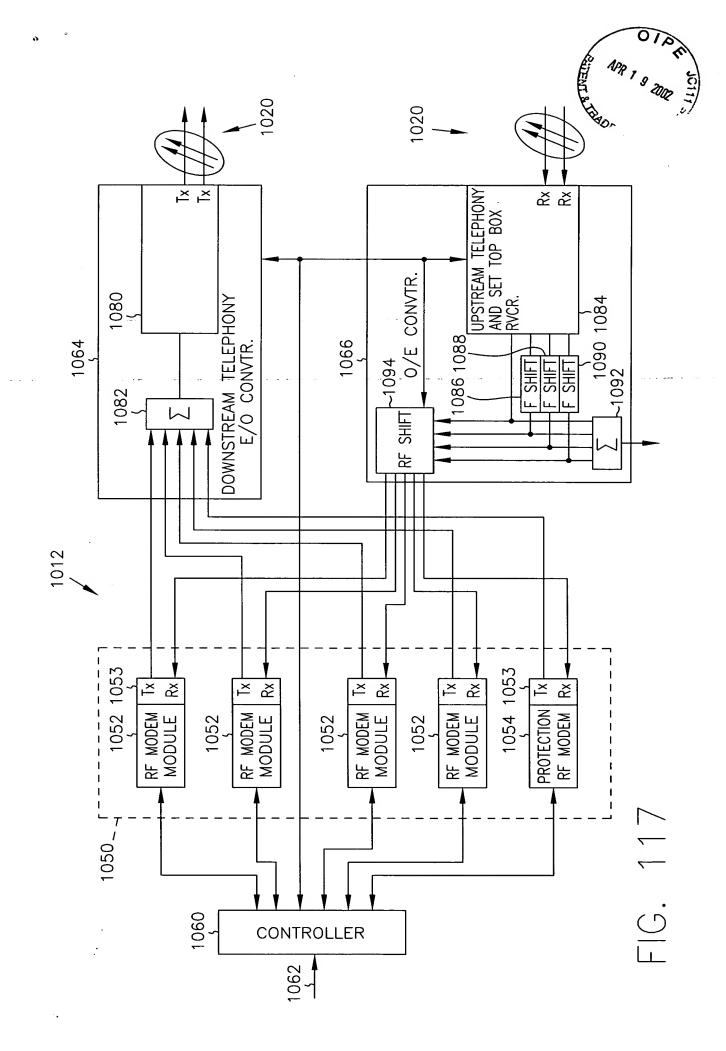
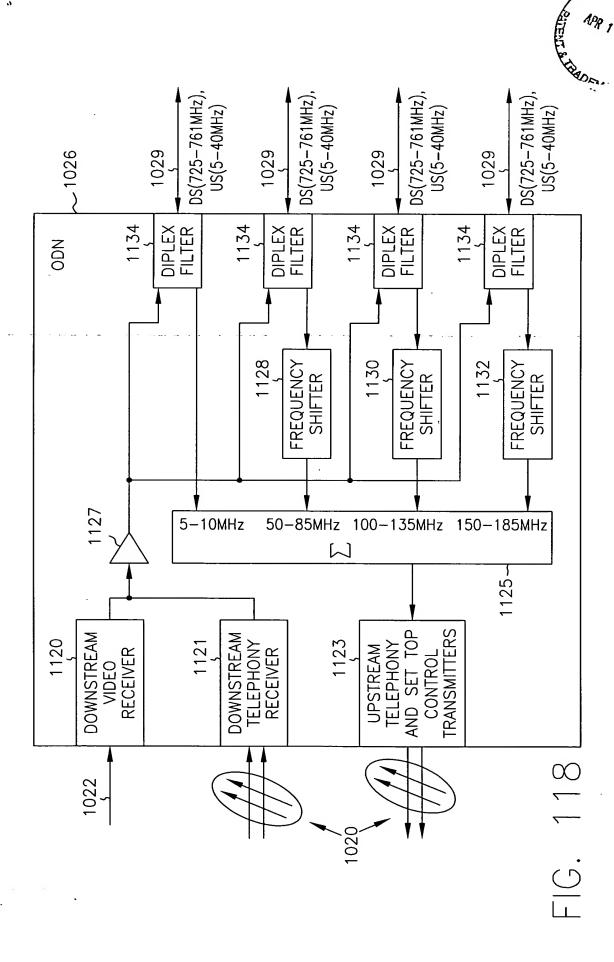


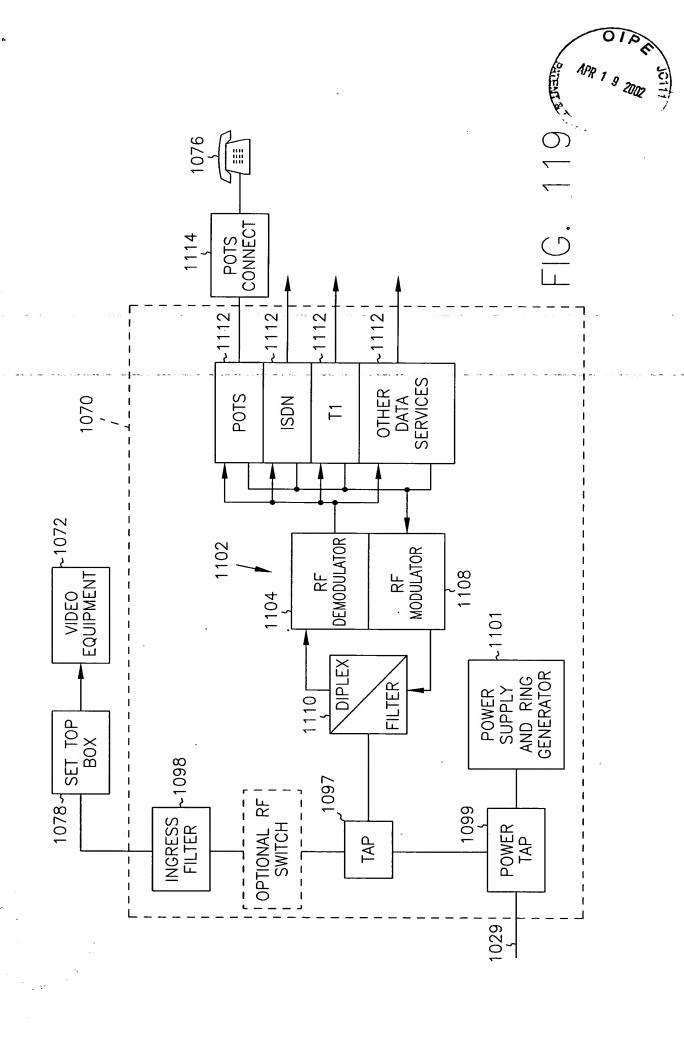
FIG. 115



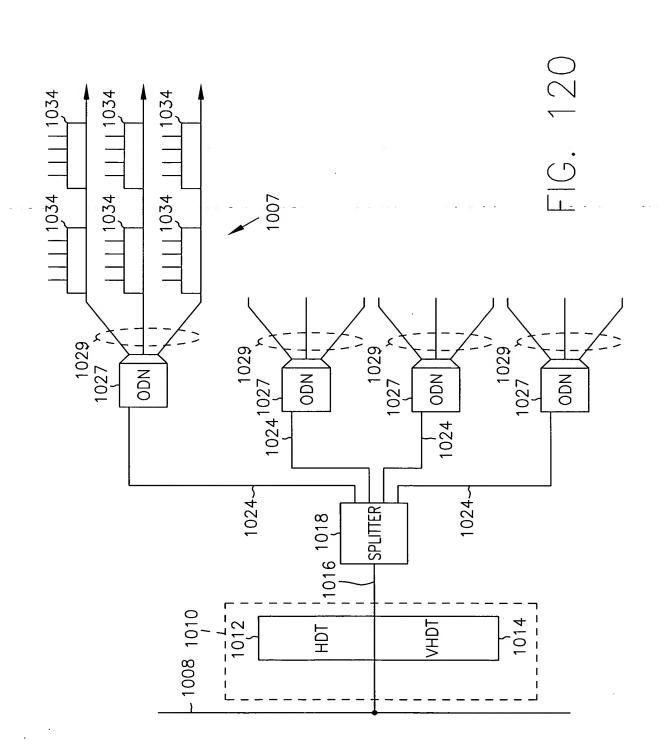
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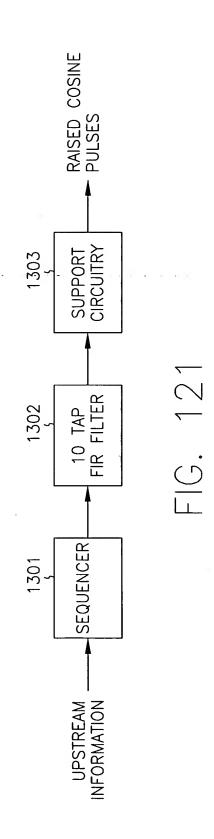




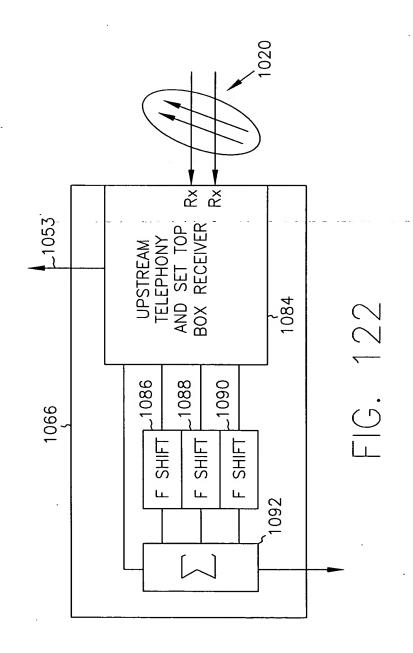






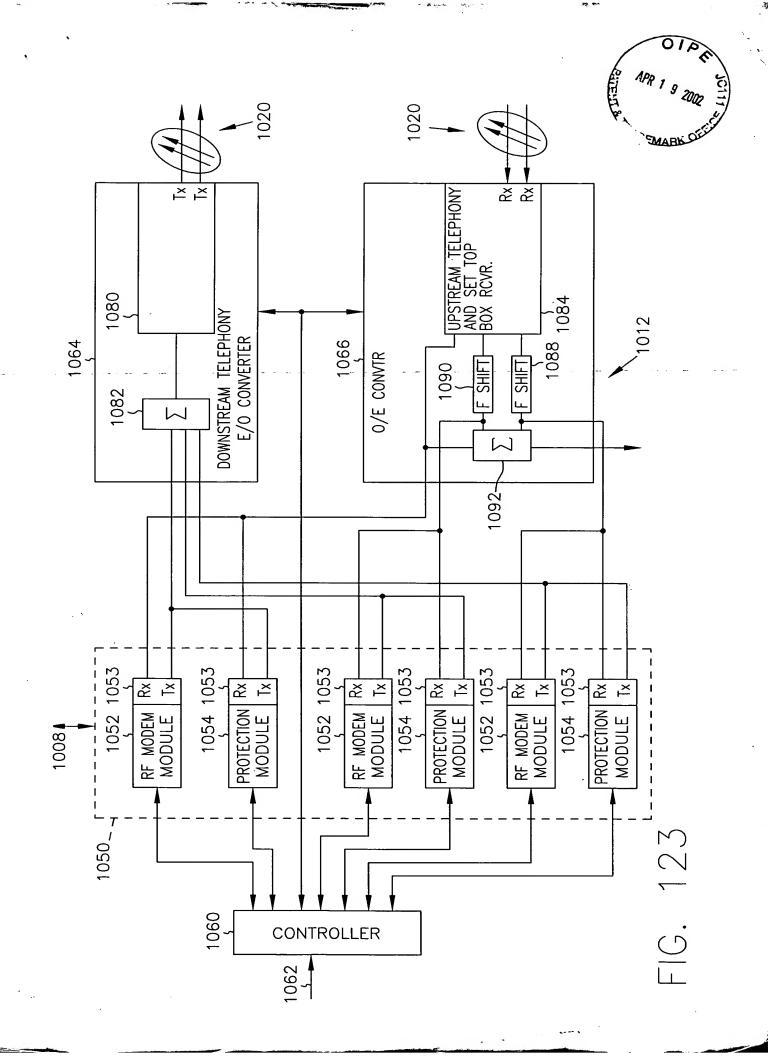






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